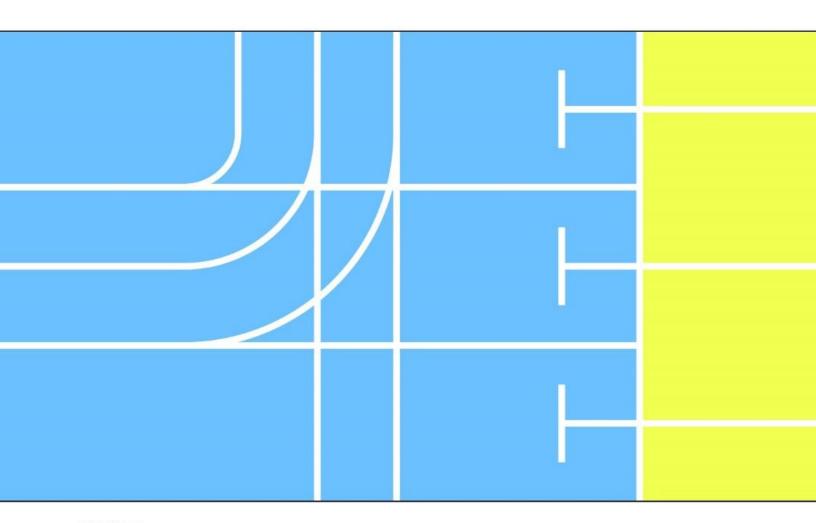


World Anti-Doping Code

# International Standard for Laboratories





# International Standard for Laboratories

The World Anti-Doping *Code International Standard* for Laboratories is a mandatory *International Standard* developed as part of the World Anti-Doping Program. It was developed in consultation with *Signatories*, public authorities, *Athletes*, and other relevant *WADA* stakeholders.

The *International Standard* for Laboratories first came into effect in November 2002. It was subsequently amended multiple times, in the years 2003, 2004, 2008, 2009, 2012, 2015, 2016, 2019 and 2021. A revised version was approved by the *WADA* Executive Committee on 5 December 2025 and came into force on 1 January 2027.

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# PART ONE: INTRODUCTION, *CODE* PROVISIONS, TECHNICAL DOCUMENTS, AND INTERPRETATIONS

## 1.0 Introduction and Scope

## 1.1 WADA Laboratory Standards

#### 1.1.1 International Standard for Laboratories

The main purpose of the *International Standard* for Laboratories (ISL) is to ensure that "Laboratories" (i.e., *WADA*-accredited <u>Laboratories</u> and *WADA*-approved <u>ABP Laboratories</u>) report valid test results based on reliable evidentiary data, and to facilitate harmonization in <u>Analytical Testing</u> of Samples by <u>Laboratories</u> and in the analysis of the <u>Markers</u> of the Hematological Module of the <u>Athlete Biological Passport</u> (ABP) by both Laboratories and <u>ABP</u> Laboratories.

The ISL sets out the requirements to be followed by Laboratories to ensure that they are technically competent, operate within an effective Management System, and are able to produce valid analytical results. The ISL includes, *inter alia*, a description of the *WADA* accreditation and *ABP* approval processes, including the requirements for obtaining and maintaining *WADA* Laboratory accreditation and *WADA* ABP Laboratory approval, as well as operating standards for the performance of Laboratories. The ISL also sets out requirements and guidance for *Anti-Doping Organizations* (*ADOs*) in relation to *Sample* custody and storage, *Analytical Testing* and some aspects of *Results Management*.

Compliance with the ISL and its associated ISL *Technical Documents (TDs)* and ISL *Technical Letters (TLs)* in effect at the time of *Sample* analysis, as opposed to another alternative standard, practice or procedure, shall be sufficient to conclude that the procedures covered by the ISL were performed properly. A failure by a Laboratory to follow a requirement in effect at the time of <u>Analytical *Testing*</u>, which has subsequently been eliminated from this ISL or applicable ISL TD(s) or ISL TL(s) at the time of a hearing, shall not serve as a defense to an Anti-doping Rule Violation.

#### 1.1.2 ISL Technical Documents

ISL *TD*s are issued by *WADA* to provide comprehensive instructions to the <u>Laboratories</u>, <u>ABP Laboratories</u> and other WADA stakeholders on analytical or procedural issues. ISL *TDs* are modified and/or withdrawn by *WADA* as appropriate.

#### a) Approval and Publication of ISL TDs

A stakeholder consultation (including Laboratories, where applicable) shall be conducted for new ISL *TD* drafts.

i. The stakeholder consultation may not be needed for a revised draft of an existing ISL *TD*, as determined by *WADA*. This may include when



the implementation of the revised ISLTD is time sensitive (for example, to avoid detrimental Consequences on Athletes) or when low-impact editorial changes are needed (e.g., correction of typographical errors, formatting changes). Nevertheless, any such revisions of ISL TDs shall be reviewed and accepted by the Laboratory Expert Advisory Group (Lab EAG) before the presentation of the new ISL TD version to the WADA Executive Committee for approval.

ii. Final versions of ISL *TD*s are approved by the *WADA* Executive Committee and published on *WADA*'s website.

# b) Implementation of ISL TDs

- i. Once approved and published, an ISL *TD* becomes an integral part of the ISL and supersedes any previous publication on a similar topic <sup>1</sup>, including ISL *TL*s and/or the ISL.
- ii. The implementation of ISL *TD* requirements into the Laboratory's Management System is mandatory for obtaining and maintaining *WADA* accreditation or approval, as applicable, and for the application of the relevant <u>Analytical Testing Procedure(s) (ATP)</u> to the analysis of *Samples*.
- iii. The implementation of the requirements detailed in an approved and published ISL *TD* may occur prior to the effective date for implementation specified in the ISL *TD* and shall occur no later than that effective date (deadline for implementation).
- iv. If a Laboratory is not able to implement a new ISL *TD* by its effective date, it shall inform its customers and *WADA* as soon as possible. The Laboratory shall send a written request to *WADA* for an extension beyond the applicable effective date, providing the reason(s) for the delayed implementation of the ISL *TD*, any measures taken to ensure that *Samples* received in the Laboratory will be subject to *Analytical Testing* in compliance with the new ISL *TD* (for example, by subcontracting the analysis to another <u>Laboratory</u>), as well as plans for the implementation of the new ISL *TD*.
- v. A failure by a <u>Laboratory</u> to implement an ISL *TD* by the effective date may result in the imposition of an <u>Analytical Testing Restriction</u> (<u>ATR</u>) against the <u>Laboratory</u> for that particular <u>ATP</u> or for the analysis of that particular class of *Prohibited Substances* or *Prohibited Methods*, or a <u>Suspension</u> of the <u>Laboratory</u>'s *WADA* accreditation, or a <u>Suspension</u> of the Laboratory's approval for the analysis of the *Markers* of the Hematological Module of the *ABP*, as determined by *WADA*.

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WADA shall provide guidance to Laboratories and other WADA stakeholders on the standard(s) that may be affected by a new or revised ISL TD or ISL TL in the Summary of Modifications that accompanies the publication of the approved version of the ISL TD or ISL TL.



[Comment to Article 1.1.2 b): The effective date for implementation of an ISL TD shall be interpreted as the deadline, following approval and publication of the ISL TD, by which the ISL TD shall be implemented by Laboratories. However, Laboratories may implement an ISL TD as soon as it is approved by the WADA Executive Committee and published on WADA's website, provided that the requirements of the ISL TD have been implemented and documented in the Laboratory's Management System.]

#### c) Application of ISL TDs

i. When a newly approved version of an ISL TD lowers either a Decision Limit (DL) for a Threshold Substance or a Minimum Reporting Level (MRL) for a Non-Threshold Substance, as applicable, the revised limits specified in the new ISL TD shall not be applied to the reporting of analytical results for Samples collected before the effective date of the ISL TD, even if the Laboratory already implemented and documented the requirements of the new ISLTD in their Management System before the effective date.

[Comment to Article 1.1.2 c): For example, if the application of a newly approved ISL TD would result in an Adverse Analytical Finding (AAF) for a Sample with a collection date prior to the effective date of that new ISL TD, which would not have resulted in an AAF with the application of the version of the ISL TD in effect at the time of Sample collection (for example if the DL for a <a href="Threshold Substance">Threshold Substance</a> has been lowered in the newly approved ISL TD), the <a href="Laboratory">Laboratory</a> shall report the finding as a <a href="Megative Finding">Negative Finding</a>. In addition, the <a href="Laboratory">Laboratory</a> shall record the details of the finding as a comment in the Test Report.]

- ii. If the application of a newly approved ISL *TD* would lead to a result that benefits the *Athlete* [e.g., increase of the *DL* for a <u>Threshold Substance</u> or the *MRL* for a <u>Non-Threshold Substance</u>, establishment of more stringent identification criteria for qualitative chromatographic-mass spectrometric or electrophoretic <u>Confirmation Procedure</u> (<u>CP</u>)], then the new ISL *TD* shall be applied to the <u>Analytical Testing</u> of <u>Samples</u> as soon as it is approved by the <u>WADA</u> Executive Committee and published on <u>WADA</u>'s website (i.e., prior to the effective date). Therefore, in cases where an analytical finding does not meet the new reporting criteria, as defined in the new ISL *TD*, then the test result shall be reported as a <u>Negative Finding</u>. <u>WADA</u> shall instruct the <u>Laboratories</u> about such situations (for example, as part of the ISL <u>TD</u> Summary of Modifications).
- iii. Subject to the above, the analysis of Samples and the review of Analytical Data, in compliance with the new ISL TD, may be implemented once an ISL TD has been approved, and the Laboratory has implemented and documented the requirements of the new ISL TD in their Management System.



#### 1.1.3 ISL Technical Letters

ISL *TL*s are issued on an *ad hoc* basis to provide instructions to the <u>Laboratories</u> and other stakeholders on particular issues on the analysis, interpretation and reporting of results for specific *Prohibited Substance*(s) and/or *Prohibited Method*(s) or on the application of specific <u>Laboratory</u> procedures. ISL *TL*s are amended and/or withdrawn by *WADA* as appropriate.

- a) Approval and Publication of ISL TLs
  - A stakeholder consultation (including <u>Laboratories</u>) shall be conducted for new ISL *TL* drafts.
  - i. The stakeholder consultation may not be needed for a revised draft of an existing ISL TL, as determined by WADA. This may include when the implementation of the revised ISL TL is time sensitive (for example, to avoid detrimental Consequences on Athletes) or when low-impact editorial changes are needed (e.g., correction of typographical errors, formatting changes). Nevertheless, any such revisions of ISL TLs shall be reviewed and accepted by the <u>Lab EAG</u> before presentation of the new ISL TL version to the WADA Executive Committee for approval.
  - iii. Final versions of ISL *TL*s are approved by the *WADA* Executive Committee and published on *WADA*'s website.

# b) Implementation of ISL *TL*s

- i. Once approved, an ISL *TL* becomes an integral part of the ISL and supersedes any previous publication on a similar topic <sup>1</sup>, including ISL *TD*s and/or the ISL.
- ii. Approved ISL *TL*s become effective immediately, unless otherwise specified by *WADA*.
  - [Comment to Article 1.1.3 b): ISL TLs may require actions (e.g., validation of new <u>Analytes</u> or modifications to <u>ATP(s)</u>, the procurement of <u>Reference Materials</u> <u>RMs</u> or <u>Reference Collections</u> <u>RCs)</u>, which may justify that its application cannot be immediate. In such cases, WADA shall make a time provision for implementation and specify an effective date for the ISL TL.]
- iii. The implementation of the requirements of relevant ISL TLs into the <u>Laboratory</u>'s Management System is mandatory for obtaining and maintaining WADA accreditation and for the application of the relevant <u>ATP(s)</u> to the analysis of Samples.
- iv. If an approved ISL *TL* does not become effective immediately, as determined by *WADA*, the implementation of the requirements detailed in the approved and published ISL *TL* may occur prior to the effective date for implementation specified in the ISL *TL* and shall occur no later than that effective date (deadline for implementation).
- v. A failure by a <u>Laboratory</u> to implement an ISL *TL* by the effective date may result in the imposition of an <u>ATR</u> against the <u>Laboratory</u> for that



<u>ATP</u> or for the analysis of that class of *Prohibited Substances* or *Prohibited Methods*, or a <u>Suspension</u> of the <u>Laboratory</u>'s *WADA* accreditation, as determined by *WADA*.

#### c) Application of ISL TLs

- i. When a newly approved version of an ISL TL lowers, for example, an MRL for a Non-Threshold Substance, the revised limits specified in the new ISL TL shall not be applied to the reporting of analytical results for Samples collected before the effective date of the ISL TL (if the ISL TL does not become effective immediately), even if the Laboratory already implemented and documented the requirements of the new ISLTL in their Management System before the effective date.
- ii. If the application of a newly approved ISL *TL* would lead to a result that benefits the *Athlete* [e.g., increase of the *MRL* for a <u>Non-Threshold Substance</u>), then the new ISL *TL* shall be applied to the <u>Analytical Testing</u> of *Samples* as soon as it is approved by the *WADA* Executive Committee and published on *WADA*'s website (i.e., prior to the effective date, if not becoming effective immediately). Therefore, in cases where an analytical finding does not meet the new reporting criteria, as defined in the new ISL *TL*, then the test result shall be reported as a <u>Negative Finding</u>. *WADA* shall instruct the <u>Laboratories</u> about such situations (for example, as part of the ISL *TL* Summary of Modifications).

#### 1.1.4 Laboratory Guidelines

<u>Laboratory Guidelines (LGs)</u> are issued to provide guidance to the <u>Laboratories</u> and other *WADA* stakeholders on new <u>Analytical Methods</u> or procedures approved by *WADA*. <u>LGs</u> are modified and/or withdrawn by *WADA*, as appropriate.

- a) Approval and Publication of LGs
  - i. <u>LGs</u> may be consulted with *WADA* stakeholders (including <u>Laboratories</u>).
  - ii. Final versions of <u>LGs</u> are published on *WADA's* website after approval by the <u>Lab EAG</u> and become effective immediately, unless otherwise specified by *WADA*.

#### b) Application of LGs

The application of <u>LGs</u> is not mandatory. However, <u>Laboratories</u> are encouraged to follow, to the fullest extent possible, the recommendations of best practice included in the relevant <u>LGs</u>.



#### 1.1.5 Technical Notes

<u>Technical Notes</u> (<u>TNs</u>) are issued to <u>Laboratories</u> to provide detailed technical guidance on the performance of specific <u>Analytical Methods</u> or procedures.

# a) Approval of TNs

- i. TNs are not subject to consultation with WADA stakeholders.
- ii. TNs are approved by the Lab EAG.
- iii. <u>TNs</u> are provided on a confidential basis to <u>Laboratories</u> only and are not published on *WADA*'s website. The <u>Laboratory</u> may provide hard copies of <u>TNs</u> to representatives from ISO/IEC 17025 Accreditation Bodies (ABs), confidentially and upon request, for use during <u>Laboratory</u> AB Assessments.

#### b) Application of TNs

The application of the recommendations detailed in <u>TNs</u> is not mandatory. However, <u>Laboratories</u> are encouraged to follow, to the fullest extent possible, the technical guidance included in TNs.

#### 1.2 Sample Analysis

Sample analysis is part of the <u>Analytical Testing</u> process and involves the detection, identification, and in some cases demonstration of the presence above a <u>Threshold</u> or determination of the exogenous origin, of <u>Analyte(s)</u> of <u>Prohibited Substance(s)</u> or <u>Prohibited Method(s)</u> in human biological fluids or tissues.

Laboratories may accept samples for other forms of analysis, subject to the provisions of the ISL Code of Ethics (see Article 8.0), which are not under the Scope of WADA Accreditation or ABP approval (e.g., animal sports testing, forensic testing, clinical testing, drugs of abuse testing) and, therefore, shall not be subject to the requirements of the ISL, ISL TDs or ISL TLs. For the avoidance of doubt, Test Reports or other documentation or correspondence from Laboratories shall not declare or represent that any such testing is covered under their WADA accreditation or ABP approval status.

#### 1.3 WADA Laboratory Accreditation Framework and ABP Laboratory Approval

The WADA <u>Laboratory</u> accreditation and <u>ABP Laboratory</u> approval framework consists of two (2) main elements: Part Two of the ISL (<u>Laboratory</u> accreditation and <u>ABP Laboratory</u> approval requirements and operating standards) and Part Three (the Annex A and Appendix 1).

a) Part Two of the ISL describes the requirements necessary to obtain and maintain WADA accreditation (Article 4.1) and WADA approval for the ABP (Article 4.2) and the procedures involved to fulfill these requirements, as well as the specific requirements to conduct <u>Analytical Testing</u> during <u>Major Events</u> (Article 4.3). It also includes the application of ISO/IEC 17025 <sup>2</sup> to the field of <u>Doping Control</u> (Article

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<sup>&</sup>lt;sup>2</sup> Effective version of ISO/IEC 17025.



- 5.0), a brief description of the *WADA* Laboratory monitoring and performance evaluation activities (Article 6.0) as well as the Laboratory disciplinary procedures (Article 7.0) and the ISL Code of Ethics (Article 8.0). The purpose of Part Two of the ISL is to enable the consistent application of ISO/IEC 17025 and ISL-specific requirements to <u>Analytical Testing</u> for <u>Doping Control</u> by Laboratories, as well as to facilitate the Assessment of Laboratory compliance by ABs and *WADA*.
- b) Part Three of the ISL includes the Annex A (Procedural Rules), which describes the procedural rules for the Disciplinary Committee (DC) of the ISL, as well as the Appendix 1 (Definitions from the *Code* and other *International Standards* that are cited in the ISL, as well as ISL Definitions).

To harmonize the accreditation of <u>Laboratories</u> to the requirements of ISO/IEC 17025 and the approval of <u>ABP Laboratories</u> to the requirements of ISO/IEC 17025 (or ISO 15189), as well as the <u>WADA</u>-specific requirements for accreditation or approval, ABs are required to use the ISL, ISL <u>TD</u>s, ISL <u>TL</u>s and <u>LGs</u> as reference documents in their assessment process.

[Comment to Article 1.3: While <u>Laboratories</u> are required to be accredited to the requirements of ISO/IEC 17025 (applicable to testing and calibration laboratories), <u>ABP Laboratories</u> may be accredited to either the ISO/IEC 17025 or ISO 15189 (applicable to medical laboratories) standards.]

Continued Laboratory *WADA* accreditation or approval for the *ABP* is based on satisfactory performance in the applicable <u>External Quality Assessment Scheme</u> (<u>EQAS</u>) and in routine <u>Analytical Testing</u>. The <u>EQAS</u> performance of Laboratories is continually monitored by *WADA* and reviewed as part of their AB Assessment process, as applicable. Therefore, the Laboratory shall not be subject to challenge or to demands to produce <u>EQAS</u> data or related <u>EQAS</u> documentation by third parties.

#### 2.0 Code Provisions

The following Articles in the 2027 *Code* are directly relevant to the ISL; they can be obtained by referring to the *Code* itself:

- Code Article 2.1 Presence of a Prohibited Substance or its Metabolites or Markers in an Athlete's Sample
- Code Article 2.5 Tampering or Attempted Tampering with any Part of Doping Control by an Athlete or Other Person
- Code Article 4.5 Monitoring Program
- Code Article 6.2 Purpose of Analysis of Samples and Assessment of Analytical Data
- Code Article 6.3 Research on Samples and Data
- Code Article 6.4 Standards for Sample Analysis and Reporting
- Code Article 6.5 Additional Analysis of a Sample Prior to or During Results Management
- Code Article 6.6 Further Analysis of a Sample after it has been Reported as Negative or has Otherwise not Resulted in an Anti-Doping Rule Violation Charge
- Code Article 6.8 WADA's Right to Take Possession of Samples and Data



- Code Article 13.7 Appeals from Decisions Suspending or Revoking Laboratory Accreditation
- Code Article 14.3 Public Disclosure
- Code Article 19 Research
- Code Article 19.4 Research Practices
- Code Article 19.5 Research Using Prohibited Substances and Prohibited Methods

# 3.0 ISL Technical Documents and Interpretation

#### 3.1 ISL Technical Documents cited in this version of the ISL<sup>3</sup>

- i. ISL TD <u>APMU</u> <u>Athlete Passport Management Unit</u> Requirements and Procedures.
- ii. ISL TD ATP Analytical Testing Procedures.
- iii. ISL *TD* BSM Analytical and Reporting Requirements for the Blood *Markers* of the Steroidal Module of the *Athlete Biological Passport*.
- iv. ISL *TD* CG/LH Analysis, Reporting and Management of Urinary Human Chorionic Gonadotrophin (hCG) and Luteinizing Hormone (LH) Findings in Male *Athletes*.
- v. ISL *TD* DBS Dried Blood Spots (DBS) for *Doping Control*. Requirements and Procedures for <u>Analytical Testing</u> and *Sample* Storage.
- vi. ISL *TD DL Decision Limits* for the Confirmatory Quantification of Exogenous <u>Threshold Substances</u>.
- vii. ISL *TD* ENDO Analytical and Reporting Requirements for the Blood *Markers* of the Endocrine Module of the *Athlete Biological Passport*.
- viii. ISL *TD* EPO Harmonization of Analysis and Reporting of Erythropoietin (EPO)-Receptor Agonists (ERAs) and Transforming Growth Factor-beta (TGF-b) Signalling Inhibitors by Polyacrylamide Gel Electrophoretic (PAGE) Analytical Methods.
- ix. ISL TD EQAS External Quality Assessment Scheme.
- x. ISL *TD* GD Detection of Gene Doping.
- xi. ISL *TD* GH Human Growth Hormone (hGH) Isoform Differential Immunoassays for *Doping Control* Analyses.
- xii. ISL TD HBT Detection of Homologous Blood Transfusion (HBT) by Flow Cytometry.

Additional new ISL TDs may be drafted and published by WADA, which are not cited in this version of the ISL and, therefore, are not listed in this Article 3.1. Such new ISL TDs shall nevertheless be considered an integral part of the ISL and shall supersede any previous publication on a similar topic, including ISL TLs and/or the ISL.



- xiii. ISL *TD* HEM Analytical and Reporting Requirements for the *Markers* of the Hematological Module of the *Athlete Biological Passport*.
- xiv. ISL *TD* IDCR Minimum Criteria for Chromatographic-Mass Spectrometric Confirmation of the Identity of <u>Analytes</u> for *Doping Control* Purposes.
- xv. ISL *TD* IRMS Detection of Synthetic Forms of *Prohibited Substances* by GC/C/IRMS.
- xvi. ISL TD LCOC Laboratory Chain of Custody.
- xvii. ISL TD LDOC Laboratory Documentation Package.
- xviii. ISL TD MRL: Minimum Reporting Levels applied in Doping Control.
- xix. ISL *TD* <u>MRPL</u> <u>Minimum Required Performance Levels</u> for <u>Non-Threshold</u> Substances.
- xx. ISL TD NA: Harmonization of Analysis and Reporting of 19-Norsteroids
- xxi. ISL *TD* PERF Laboratory Performance Evaluation.
- xxii. ISL *TD* USM Analytical and Reporting Requirements for the Urinary *Markers* of the Steroidal Module of the *Athlete Biological Passport*.
- xxiii. ISL *TD* VAL Minimum Requirements for Validation of <u>Analytical Testing Procedures</u> for *Doping Control*.

#### 3.2 Interpretation

The official text of the ISL shall be published in English and French. In the event of any conflict between the English and French versions, the English version shall prevail.

Like the *Code*, the ISL has been drafted giving consideration to the principles of proportionality, human rights, and other applicable legal principles. It shall be interpreted and applied in that light.

The comments annotating various provisions of the ISL shall be used to guide its interpretation.

Unless otherwise specified, references to Articles or Annex are references to Articles or the Annex of the ISL.

Where the term "days" is used in the ISL, it shall mean calendar days (i.e., all the days of the week including any non-working days) unless otherwise specified.

Terms used in this ISL that are defined terms from the *Code* are italicized. Terms that are defined in *International Standards* are underlined.

Defined terms from the *Code* and *International Standards* that are used in the ISL are found in Appendix 1.

The ISL *TD*s and ISL *TL*s have the same mandatory status as the rest of the ISL and constitute an integral part of it.



Annex A to the ISL has the same mandatory status as the rest of the *International Standard*.

The following terms used in the ISL shall be interpreted as indicated:

- "Shall" to indicate a mandatory requirement.
- "Should" to indicate a recommendation.



# PART TWO: <u>LABORATORY</u> ACCREDITATION AND <u>ABP LABORATORY</u> APPROVAL REQUIREMENTS AND OPERATING STANDARDS

# 4.0 Process and Requirements for WADA <u>Laboratory</u> Accreditation, <u>ABP</u> <u>Laboratory</u> Approval and <u>Laboratory</u> Accreditation for <u>Major Events</u>

#### 4.1 WADA Laboratory Accreditation

#### 4.1.1 Applicant laboratory for WADA Accreditation

In principle, any laboratory that satisfies the criteria listed below may apply to become a <u>Candidate laboratory</u> for *WADA* accreditation. However, the *WADA* Executive Committee, at its sole discretion, may accept or deny a laboratory's application based on the identified needs (or lack thereof) for anti-doping <u>Analytical Testing</u> on a regional or national scale, or for any other reason(s). The decision of the *WADA* Executive Committee shall be provided to the <u>Applicant laboratory</u> in writing.

# 4.1.1.1 Expression of Interest

The <u>Applicant laboratory</u> shall officially contact *WADA* in writing to express its interest in becoming a *WADA*-accredited Laboratory. At this stage, *WADA* may provide clarifications to the laboratory on the *WADA* accreditation process, including advice on the initial fee to be paid once the laboratory is approved by the *WADA* Executive Committee as a Candidate laboratory (see Article 4.1.2.1).

#### 4.1.1.2 Submit Initial Application Form

The <u>Applicant laboratory</u> shall submit a completed Application Form, provided by *WADA*, duly signed by the laboratory Director and, if relevant, by the Director of the host organization (e.g., university, hospital, private organization, public institution).

A laboratory may only apply if its host country satisfies the following conditions:

a) It has a robust National Anti-Doping Program [in terms of <u>Test Distribution Plan</u> (<u>TDP</u>), Sample collection and Results Management activities] conducted by a National Anti-Doping Organization (NADO), which is compliant with the Code and the International Standards of the World Anti-Doping Code.

[Comment to Article 4.1.1.2 a): The National Anti-Doping Program in the host country of the <u>Applicant laboratory</u> shall have demonstrated, in the most recent full year, that their Sample collection activities were conducted in compliance with the International Standard for Testing (IST) and the IST TD on Sport Specific Analysis (IST TD SSA), as determined by WADA, and analyzed in a Laboratory(-ies).

By way of exception to this requirement, WADA may consider accepting an <u>Applicant laboratory</u> from a country where the application is supported by other ADOs in the region, which would guarantee a robust Regional Anti-Doping Program.]



- b) It has ratified the UNESCO Convention against Doping in Sport, and
- c) It has paid the annual financial contribution to WADA.

These conditions shall be confirmed by *WADA* and documented as part of the application.

#### 4.1.1.3 Provide Letters of Support

The <u>Applicant laboratory</u> shall submit the following letters of support with their application:

- a) Official letter(s) of support from the laboratory's host organization(s), which is acceptable to WADA (e.g., universities, hospitals, private organizations and/or public institutions). The letter(s) of support shall guarantee sufficient annual financial support for a minimum of three (3) years, the provision of adequate analytical facilities, instrumentation, and human resources, as well as support for training programs and Research and Development (R&D) activities.
- b) Official letter(s) of support from *Signatory*(-ies) [e.g., *NADO*(s) responsible for National Anti-Doping Program(s), International Federation(s) responsible for International Anti-Doping Program(s)] and/or *Delegated Third Party*(-ies) (*DTP*) in charge of *Sample* collection on behalf of *ADO*(s), collectively guaranteeing a minimum total number of 3,000 *Samples* (including urine, whole blood <sup>4</sup> and DBS *Samples*) annually, of which at least 2,500 shall be urine *Samples*.

[Comment to Article 4.1.1.3 b): To determine the minimum number of Samples, each Sample type (urine, whole blood, or DBS) analyzed by the <u>Laboratory</u> shall count as an individual Sample.]

c) A declaration by the supporting *Signatory*(-ies) that their relationship with the <u>Applicant laboratory</u> is compliant with Article 4.1.4.2.5.

#### 4.1.1.4 Provide Business Plan

The <u>Applicant laboratory</u> shall submit a business plan, upon request by *WADA*, which shall include market considerations (customers, number of *Samples*, maintenance costs, etc.), facility, instrumental, staffing and training plans, and guarantees for the long-term provision (minimum of three (3) years) of adequate financial and human resources to the laboratory. The business plan shall be provided by the <u>Applicant laboratory</u> within eight (8) weeks of *WADA*'s request.

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Whole blood Samples may be venous or liquid capillary blood. Analysis can be performed on the whole blood or on the separated plasma or serum fraction obtained following Sample centrifugation. Whether serum or plasma is obtained depends on the tube used for the Sample collection (see also Article 5.3.3.2).



#### 4.1.2 <u>Candidate laboratory</u> for *WADA* Accreditation

The application materials described in Articles 4.1.1.1 to 4.1.1.4 shall be evaluated by WADA. If WADA, upon advice by the Lab EAG, determines that the Applicant laboratory has satisfactorily met the criteria of Article 4.1, a recommendation shall be forwarded to the WADA Executive Committee, which shall determine whether the laboratory shall be granted WADA Candidate laboratory status and thereby continue within the WADA accreditation process. Additional supporting documentation may be requested by, and at the discretion of, the WADA Executive Committee. The decision of the WADA Executive Committee shall be provided to the Applicant laboratory in writing.

#### 4.1.2.1 Payment of Initial Fee

Once approved by the *WADA* Executive Committee, the <u>Candidate laboratory</u> shall pay a one-time non-refundable fee to *WADA* to cover the costs related to the initial stages of the accreditation process, including the review of documentation and any necessary follow-ups, as well as the preparation, characterization, and shipment of the <u>EQAS</u> samples necessary for the Pre-Probationary Test (PPT) – see Article 4.1.2.7. This fee shall be determined by *WADA* and shall be specified in the Initial Application Form.

#### 4.1.2.2 Candidate laboratory Administrative and Technical Capabilities

Once approved by the *WADA* Executive Committee, the <u>Candidate laboratory</u> shall complete a detailed questionnaire provided by *WADA* regarding the status of their administrative and technical capabilities and submit it to *WADA* within eight (8) weeks following receipt. The questionnaire shall include, but is not limited to, the following information:

- a) Sources of laboratory funding (list of laboratory sponsors).
- b) Staff list and their qualifications.
- c) Description of the laboratory facilities and physical security (see Article 5.2.3.1).
- d) Description of the laboratory Information Technology (IT) infrastructure and security (see Article 5.2.3.5).
- e) List of actual and proposed instrumental resources and equipment.
- f) Status of ISO/IEC 17025 accreditation.
- g) Status and details of their ATPs:
  - Status of validated <u>Initial Testing Procedures</u> (<u>ITPs</u>) and <u>Confirmation Procedures</u> (<u>CPs</u>), including target <u>Analytes</u> and <u>Limits of Detection</u> (<u>LODs</u>), <u>Limits of Identification</u> (<u>LOIs</u>) and, where applicable, <u>Limits of Quantification</u> (<u>LOQs</u>) and <u>Measurement Uncertainties</u> (<u>MUs</u>).



- ii. Status of method development and validation, including, at minimum, Validation Reports for all mandatory <u>Analytical</u> <u>Methods</u> (if completed) – see the ISL *TD* <u>ATP</u>.
- iii. Status of available RMs and RCs and plans for acquisition.
- h) Description of customs regulations in the host country with respect to the importation of *Samples* and <u>EQAS</u> samples, <u>RMs</u> and consumables from abroad and the ability to ship *Samples* outside the country as needed.
- i) A description of how the principles of the ISL Code of Ethics (see Article 8.0) are integrated into the laboratory's Management System as described in Article 4.1.2.3. A letter of compliance with the ISL Code of Ethics signed by the laboratory Director shall be provided.

WADA may require an update of this documentation during the process of accreditation.

#### 4.1.2.3 Compliance with the ISL Code of Ethics

The <u>Candidate laboratory</u> shall implement and comply with the provisions of the ISL Code of Ethics (see Article 8.0).

- a) A <u>Candidate laboratory</u> shall not conduct any anti-doping <u>Analytical</u> <u>Testing</u> activities for *ADOs* and shall not accept <u>Samples</u> directly from individual <u>Athletes</u> or from individuals or organizations acting on their behalf.
- b) The Director of the <u>Candidate laboratory</u> shall provide the ISL Code of Ethics to all laboratory employees and ensure their understanding and compliance with all aspects of the ISL Code of Ethics.

## 4.1.2.4 Independence and Impartiality

Prior to entering the probationary period, the <u>Candidate laboratory</u> shall complete a *WADA* independence and impartiality questionnaire which demonstrates that, before obtaining *WADA* accreditation, the laboratory shall comply with the requirements of <u>Laboratory</u> independence and impartiality indicated in Article 4.1.4.2.5.

#### 4.1.2.5 Establish a Mentoring Agreement

- a) The <u>Candidate laboratory</u> shall establish agreement(s) (contract or Memorandum of Understanding) with a <u>Laboratory</u>(-ies) for mentoring and training, at least, up to the end of the probationary phase of accreditation to ensure successful preparation towards obtaining the *WADA* accreditation.
- b) A <u>Candidate laboratory</u> shall obtain authorization from *WADA* to receive sensitive anti-doping information (e.g., methodological or



technological information, <u>TNs</u> or any other non-public information) and/or access to specific, *WADA*-developed anti-doping tests or materials (e.g., kits, <u>RMs</u>). *WADA* shall approve such authorizations on a case-by-case basis according to the <u>Candidate laboratory</u>'s documented roadmap, business plan and the progress made during the accreditation process and shall be subject to the <u>Candidate laboratory</u> entering into a confidentiality agreement with *WADA* and/or the mentoring <u>Laboratory</u>(-ies) that will provide the information and/or access to the aforementioned tests and materials.

## 4.1.2.6 <u>Analytical Testing Procedures</u> of <u>Candidate laboratory</u>

As part of the candidate phase of *WADA* accreditation, and in preparation for the PPT <u>EQAS</u>, a <u>Candidate laboratory</u> is expected to acquire the necessary <u>RMs</u> to develop their <u>Analytical Testing</u> capacity to analyze a defined list of *Prohibited Substances* and *Prohibited Methods* (provided by *WADA*) in compliance with the ISL and relevant ISL *TD*s and ISL *TL*s. Prior to the scheduling of the PPT and On-site Assessment, the <u>Candidate laboratory</u> shall provide documentation to *WADA* demonstrating that the required <u>Analytical Testing</u> capacity has been achieved.

# 4.1.2.7 Pre-Probationary Test and On-site Assessment

A PPT and On-site Assessment shall be conducted once *WADA* has concluded that the laboratory has successfully met the requirements described in Articles 4.1.2.1 to 4.1.2.6, and the <u>Candidate laboratory</u> has confirmed its readiness to proceed. At *WADA*'s discretion, the PPT and On-site Assessment may be conducted separately or at the same time.

- a) Timeline: The <u>Candidate laboratory</u> should be prepared for the PPT and On-site Assessment within two (2) years of *WADA* Executive Committee's approval of its <u>Candidate laboratory</u> status. Any nonconformities identified during the On-site Assessment or resulting from the <u>Candidate laboratory</u>'s performance in the PPT <u>EQAS</u> shall be satisfactorily resolved, as determined by the <u>Lab EAG</u>, by the end of the three (3) year period, unless otherwise determined by *WADA* (see Article 4.1.2.8).
- b) PPT <u>EQAS</u>: As part of the PPT, the <u>Candidate laboratory</u> shall analyze at least ten (10) blind <u>EQAS</u> samples. The general composition and content of the blind <u>EQAS</u> samples and the evaluation of laboratory <u>EQAS</u> results are described in the ISL <u>TD</u> <u>EQAS</u> and the ISL <u>TD</u> PERF, respectively. However, the <u>Candidate laboratory</u> is not expected at this stage to have implemented all <u>Analytical Methods</u> or to be able to analyze all <u>Prohibited Substances</u> and <u>Prohibited Methods</u> included in the Analytical



- <u>Testing</u> menus of <u>Laboratories</u>. In this regard, *WADA* shall provide guidance to the <u>Candidate laboratory</u> in advance of the PPT.
- c) PPT <u>EQAS</u> reporting: The <u>Candidate laboratory</u> shall report the results for the PPT blind <u>EQAS</u> samples in *ADAMS* within twenty (20) days, unless otherwise notified by *WADA*.
  - i. Upon request, the <u>Candidate laboratory</u> shall provide <u>WADA</u> with a <u>Laboratory Documentation Package</u> (<u>LDOC</u>) for selected <u>EQAS</u> sample(s) for which there is an <u>AAF</u>. Additional data may be required upon <u>WADA</u>'s request. This documentation shall be submitted within ten (10) days of <u>WADA</u>'s request or as otherwise indicated by <u>WADA</u>.
  - ii. For selected <u>EQAS</u> samples with <u>Negative Findings</u>, *WADA* may request all or a portion of the <u>ITP</u> data.
- d) PPT <u>EQAS</u> evaluation: After receiving the PPT <u>EQAS</u> results, WADA shall inform the <u>Candidate laboratory</u> of the evaluation of its performance and provide guidance for improvement. Corrective Actions for nonconformities, if any, shall be conducted and reported by the <u>Candidate laboratory</u> to WADA within thirty (30) days, or as otherwise indicated by WADA.
- e) PPT On-site Assessment: WADA shall conduct the On-site Assessment of the <u>Candidate laboratory</u> at the laboratory's expense. The purpose of this assessment is to obtain information about different aspects of the laboratory's competence, which are relevant to the WADA accreditation and to clarify any issues regarding the accreditation process.
  - If relevant, a representative of the laboratory's ISO/IEC 17025 AB may be invited as an observer to the *WADA* On-site Assessment.
- f) PPT On-site Assessment evaluation: WADA shall provide a PPT Assessment Report regarding the outcomes of the On-site Assessment, including any identified nonconformity(-ies), to allow the <u>Candidate laboratory</u> to implement the necessary improvements.
  - Assessment findings for major and minor nonconformities, if requested by WADA, shall be addressed by the <u>Candidate</u> <u>laboratory</u> and reported to WADA within thirty (30) days or as otherwise indicated by WADA.
  - ii. The nonconformities identified in the *WADA* PPT Assessment Report shall be satisfactorily addressed, as determined by the <u>Lab EAG</u>, before the <u>Candidate laboratory</u> can be accepted as a *WADA* <u>Probationary laboratory</u>.



iii. The <u>Candidate laboratory</u>'s performance in the PPT <u>EQAS</u> and On-site Assessment shall be considered in the overall review of the <u>Candidate laboratory</u>'s application and may affect the timeliness of the <u>Candidate laboratory</u>'s entry into the probationary phase of accreditation.

## 4.1.2.8 Duration of Candidate Phase of WADA Accreditation

- a) The maximum length of time during which a laboratory can remain as a <u>Candidate laboratory</u> is three (3) years, unless *WADA* determines that there are exceptional circumstances that justify an extension of this period.
- b) A <u>Candidate laboratory</u> that fails to meet the requirements to enter the probationary phase of accreditation after three (3) years, or after any extension(s) to this period exceptionally approved by <u>WADA</u>, shall lead to a <u>Lab EAG</u> recommendation to the <u>WADA</u> Executive Committee to have its <u>Candidate laboratory</u> status revoked.
- c) Upon request, a revoked <u>Candidate laboratory</u> that wishes to continue seeking *WADA* accreditation shall be required to reapply for <u>Candidate laboratory</u> status as described in Article 4.1.1. *WADA* shall review each re-application on its own merits on a case-by-case basis and retains the right to reject repeated applications.

## 4.1.3 Probationary laboratory for WADA Accreditation

# 4.1.3.1 Entering the Probationary Phase of WADA Accreditation

Upon satisfactory completion of all <u>Candidate laboratory</u> requirements (as per Article 4.1.2), a <u>Candidate laboratory</u> may enter the probationary phase of <u>WADA</u> accreditation as a <u>Probationary laboratory</u>, as determined by <u>WADA</u> (upon advice by the <u>Lab EAG</u>).

#### 4.1.3.2 Payment of Probationary Phase Fee

Prior to entering the probationary period, the <u>Candidate laboratory</u> shall pay *WADA* a one-time non-refundable fee to cover the costs related to the probationary phase activities, including the review of documentation and any necessary follow-ups, as well as the preparation, characterization, and shipment of the <u>EQAS</u> samples necessary for the probationary period and the Final Accreditation Test (FAT) - see Articles 4.1.3.5. and 4.1.3.8. This fee shall be determined by *WADA*.

#### 4.1.3.3 Compliance with the ISL Code of Ethics

The <u>Probationary laboratory</u> shall implement and comply with the provisions of the ISL Code of Ethics (see Article 8.0).

a) A <u>Probationary laboratory</u> shall not conduct any anti-doping Analytical *Testing* activities for *ADOs* and shall not accept *Samples* 



- directly from individual *Athletes* or from individuals or organizations acting on their behalf.
- b) The Director of the <u>Probationary laboratory</u> shall provide the ISL Code of Ethics to all laboratory employees and ensure their understanding and compliance with all aspects of the ISL Code of Ethics.

#### 4.1.3.4 Provide Renewed Letters of Support

The <u>Probationary laboratory</u> shall submit renewed letters of support upon *WADA* request:

- a) Official letter(s) of support from the laboratory's host organization(s) (e.g., universities, hospitals, private organizations and/or public institutions). The letter(s) of support shall guarantee sufficient annual financial support for a minimum of three (3) years, the provision of adequate analytical facilities, instrumentation, and human resources, as well as support for training programs and R&D activities.
- b) Official letter(s) of support from *Signatory*(-ies) [e.g., *NADO*(s) responsible for National Anti-Doping Program(s), International Federation(s) responsible for International Anti-Doping Program(s)] and/or *DTP*(s) in charge of *Sample* collection on behalf of *ADO*(s). The letter(s) of support shall indicate a commitment to provide the Laboratory with a minimum total of 3,000 *Samples* (including urine, whole blood <sup>4</sup> and DBS *Samples*) annually, of which at least 2,500 shall be urine *Samples*, by the end of the first full calendar year after obtaining *WADA* accreditation.

[Comment to Article 4.1.3.4 b): To determine the minimum number of Samples, each Sample type (urine, whole blood, or DBS) analyzed by the <u>Laboratory</u> shall count as an individual Sample.]

c) A declaration by the supporting *Signatory*(-ies) that their relationship with the <u>Probationary laboratory</u> is compliant with Article 4.1.4.2.5.

## 4.1.3.5 <u>Analytical Testing Procedures</u> of <u>Probationary laboratory</u>

- a) Before entering the probationary phase, *WADA* shall inform the <u>Candidate laboratory</u>, in writing, of the minimum analytical requirements (<u>Test Methods</u> and target <u>Analytes</u>) that shall be validated, in compliance with the ISL and relevant ISL *TD*s and ISL *TL*s, for the laboratory to be able to participate in the <u>EQAS</u> during the probationary phase.
- b) Prior to the scheduling of the FAT and On-site Assessment (see Article 4.3.1.8), the <u>Probationary laboratory</u> shall provide WADA with documentation to assess whether the required laboratory <u>Analytical Testing</u> capacity (refer to ISL TD <u>ATP</u>) has been reached.



#### 4.1.3.6 Participate in the WADA External Quality Assessment Scheme

As part of the probationary phase, the <u>Probationary laboratory</u> is expected to gradually develop full capacity for the analysis of *Prohibited Substances* and *Prohibited Methods* as required from <u>Laboratories</u>.

- a) During the probationary period, the <u>Probationary laboratory</u> shall successfully analyze at least fifteen (15) blind <u>EQAS</u> samples, distributed over multiple <u>EQAS</u> rounds within a period of approximately twelve (12) months. During this period, *WADA* shall provide feedback to assist the <u>Probationary laboratory</u> to improve the quality of its ATPs.
- b) The <u>Probationary laboratory</u> shall successfully report the results for the blind <u>EQAS</u> samples to *WADA*, in accordance with the ISL *TD* <u>EQAS</u>, within a period determined by *WADA*. The general composition and content of the blind <u>EQAS</u> samples and the evaluation of laboratory <u>EQAS</u> results are described in the ISL *TD* <u>EQAS</u> and the ISL *TD* PERF, respectively.

#### 4.1.3.7 Obtain ISO/IEC 17025 Accreditation

The <u>Probationary laboratory</u> shall obtain ISO/IEC 17025 accreditation from an AB, with primary reference to the interpretation and application of the ISO/IEC 17025 requirements to the analysis of *Samples* (see Article 5.0) before the end of the probationary period (i.e., before *WADA* grants accreditation) and, if possible, before the FAT.

- a) The AB shall be a full member of the Global Accreditation Cooperation Inc. and a signatory to the Mutual Recognition Arrangement (MRA) of the Global Accreditation Cooperation Inc. or, if not, it shall be full member of one of the approved and recognized Regional Accreditation Cooperation Bodies:
  - African Accreditation Cooperation (AFRAC).
  - Arab Accreditation Cooperation (ARAC).
  - Asia Pacific Accreditation Cooperation Inc. (APAC).
  - European co-operation for Accreditation (EA).
  - Inter American Accreditation Cooperation (IAAC).
  - Southern African Development Community Cooperation in Accreditation (SADCA).
- b) The AB should send a summary of the ISO/IEC 17025 Assessment Report and any Corrective Action documentation addressing nonconformities, in English or French, to *WADA*. Should the <u>Probationary laboratory</u> prefer to send the information directly to *WADA*, the laboratory shall do so within a reasonable timeline.



#### 4.1.3.8 WADA Accreditation Assessment - Final Accreditation Test

A FAT and On-site Assessment shall be conducted once *WADA* has determined that the <u>Probationary laboratory</u> has successfully completed all the requirements of the probationary period, and the <u>Probationary laboratory</u> has confirmed its readiness to proceed. At *WADA*'s discretion, the FAT and On-site Assessment may be conducted separately or at the same time.

The FAT shall assess both the scientific competence and the capability of the Probationary laboratory to manage multiple *Samples*.

- a) Timeline: The <u>Probationary laboratory</u> should prepare to participate in the FAT and On-site Assessment within two (2) years of obtaining their probationary status. The <u>Probationary laboratory</u> shall satisfactorily address, as determined by <u>WADA</u>, all identified nonconformities and meet all conditions under Article 4.1.3 by the end of the three (3) year period, unless otherwise determined by <u>WADA</u> (see Article 4.1.3.12). At this stage, the <u>Probationary laboratory</u> is expected to have developed full capacity for the analysis of <u>Prohibited Substances</u> and <u>Prohibited Methods</u> as required from <u>Laboratories</u> (see ISL <u>TD ATP</u>). Therefore, compliance with the defined requirements for the application of ISO/IEC 17025 to the analysis of <u>Samples</u>, the ISL and other <u>WADA Laboratory</u> standards (ISL <u>TDs</u>, ISL <u>TLs</u>), and the practice and documentation of the laboratory, shall be assessed
- b) FAT <u>EQAS</u>: As part of the FAT, the <u>Probationary laboratory</u> shall analyze a minimum of fifteen (15) blind <u>EQAS</u> samples. The general composition and content of the blind <u>EQAS</u> samples and the evaluation of Laboratory <u>EQAS</u> results are described in the ISL *TD* <u>EQAS</u> and the ISL *TD* PERF, respectively.
- c) FAT <u>EQAS</u> reporting: The <u>Probationary laboratory</u> shall successfully report the results for the FAT <u>EQAS</u> samples to *WADA* within seven (7) days of opening the samples, unless otherwise determined by *WADA*. In addition:
  - i. Upon request, the <u>Probationary laboratory</u> shall provide WADA with <u>LDOCs</u> for selected <u>EQAS</u> samples for which there is an AAF. Additional data may be required upon WADA's request. This documentation shall be submitted within ten (10) days of WADA's request or as otherwise indicated by WADA.
  - ii. For <u>EQAS</u> samples with <u>Negative Findings</u>, *WADA* may request all or a portion of the <u>ITP</u> data.
- d) FAT <u>EQAS</u> evaluation: After receiving the FAT <u>EQAS</u> results, WADA shall inform the <u>Probationary laboratory</u> of the evaluation of its performance.



- i. Corrective Actions for nonconformities, if any, shall be conducted and reported by the <u>Probationary laboratory</u> to *WADA* within thirty (30) days, or as otherwise indicated by *WADA*.
- ii. The nonconformities identified in the FAT <u>EQAS</u> shall be satisfactorily addressed by the <u>Probationary laboratory</u> and the recommendations for improvement should be implemented before accreditation can be granted.
- e) FAT On-site Assessment: *WADA* shall conduct the On-site Assessment of the <u>Probationary laboratory</u> at the <u>Probationary laboratory</u>'s expense.
  - Representative(s) of the AB may be invited as observers to the *WADA* On-Site Assessment.
- f) FAT On-site Assessment evaluation: *WADA* shall provide a FAT Assessment Report with the outcomes of the On-site Assessment, including any identified nonconformity(-ies) for the <u>Probationary laboratory</u> to implement the necessary improvements.
  - Identified nonconformities shall be addressed by the <u>Probationary laboratory</u> and corrective measures reported to *WADA* within thirty (30) days, or as otherwise indicated by *WADA*.
  - ii. The nonconformities identified in the FAT Assessment Report shall be satisfactorily addressed by the <u>Probationary laboratory</u> before accreditation can be granted.
- g) The <u>Probationary laboratory</u>'s performance in the FAT <u>EQAS</u> and On-site Assessment shall be considered in the overall review of the <u>Probationary laboratory</u>'s application and may affect the <u>Probationary laboratory</u>'s timeliness for obtaining *WADA* accreditation.
  - i. If following the FAT <u>EQAS</u> and On-site Assessment, *WADA* determines that nonconformities have not been satisfactorily addressed and that, consequently, the <u>Probationary laboratory</u> should not be accredited, the laboratory shall have a maximum of one (1) year to correct and improve any pending nonconformity(-ies).
  - ii. The provision of documentation, the analysis of additional <u>EQAS</u> samples and/or an additional Assessment (On-site, Remote or as a Documentary Audit, as determined by *WADA*), may be required and conducted at the <u>Probationary laboratory</u>'s expense.
  - iii. A <u>Probationary laboratory</u> that fails to provide satisfactory improvements, as determined by *WADA*, after one (1) year from



the date that the Assessment Report is issued may be required to reapply for <u>Candidate laboratory</u> status as described in Article 4.1 (see also Article 4.1.3.12).

# 4.1.3.9 Plan and Implement Research and Development and Sharing of Knowledge Activities

Prior to obtaining *WADA* accreditation, the <u>Probationary laboratory</u> shall develop a plan for its R&D and Sharing of Knowledge activities in the field of anti-doping science, for the initial two (2)-year period following *WADA* accreditation, including the following requirements:

- a) At least two (2) anti-doping-related R&D activities (e.g., new research projects, <u>Analytical Method</u> development, drug administration studies) shall be initiated as soon as possible and implemented within the probationary period. The research activities may be carried out either by the <u>Probationary laboratory</u> alone or in cooperation with <u>Laboratories</u> or in association with research organizations.
- b) Demonstrated willingness and ability to collaborate and share knowledge with <u>Laboratories</u>.

As part of its laboratory monitoring activities, *WADA* may request documented evidence of the R&D and Sharing of Knowledge activities in the field of anti-doping science undertaken by the <u>Probationary</u> laboratory.

#### 4.1.3.10 Independence and Impartiality

Before *WADA* grants accreditation, the <u>Probationary laboratory</u> shall provide documentation to *WADA* demonstrating compliance with the requirements of <u>Laboratory</u> independence and impartiality established in Article 4.1.4.2.5.

#### 4.1.3.11 Obtain Professional Liability Insurance Coverage

Before *WADA* grants accreditation, the <u>Probationary Laboratory</u> shall provide documentation to *WADA* demonstrating that professional liability risk insurance coverage has been obtained to cover liability of no less than two (2) million USD annually.

#### 4.1.3.12 Duration of Probationary Phase of WADA Accreditation

- a) The maximum length of time during which a laboratory can remain as a <u>Probationary laboratory</u> is three (3) years, unless *WADA* determines that there are exceptional circumstances that justify an extension of this period.
- b) A <u>Probationary laboratory</u> that fails to meet the requirements to become *WADA*-accredited after three (3) years may lead to a Lab



- <u>EAG</u> recommendation to the *WADA* Executive Committee to revoke its probationary status.
- c) The decision of the *WADA* Executive Committee to revoke a <u>Probationary laboratory</u> status shall be provided to the <u>Probationary laboratory</u> in writing.
- d) If a laboratory whose probationary status has been revoked wishes to continue its WADA accreditation process, it shall be required to reapply for <u>Candidate laboratory</u> status as described in Article 4.1.

#### 4.1.4 WADA-Accredited Laboratory

# 4.1.4.1 Obtaining WADA accreditation

#### 4.1.4.1.1 Granting WADA Accreditation

- a) Once the <u>Lab EAG</u> has evaluated the <u>Probationary laboratory</u>'s progress and determined that all accreditation requirements (outlined in Articles 4.1.3.2 to 4.1.3.11) have been satisfactorily met, the <u>Lab EAG</u> shall submit a recommendation that the laboratory be granted *WADA* accreditation to the *WADA* Executive Committee for approval.
- b) The new <u>Laboratory</u> shall obtain a second opinion from another <u>Laboratory</u>(-ies) before reporting an *AAF* or *Atypical Finding (ATF)*, for a period of one (1) year after obtaining *WADA* accreditation. *WADA* may extend the second opinion requirement beyond one (1) year.

# 4.1.4.1.2 Issuing and Publishing of WADA Accreditation Certificate

- a) A WADA Accreditation Certificate shall be issued in recognition of the <u>Laboratory</u>'s WADA accreditation. The Accreditation Certificate shall specify the name of the <u>Laboratory</u> and the period for which the Accreditation Certificate is valid. Accreditation Certificates may be issued after the effective date, with retroactive effect.
- b) A list of <u>Laboratories</u>, and relevant contact information, shall be published on *WADA's* website.



#### 4.1.4.2 Maintaining WADA Accreditation

A <u>Laboratory</u> shall comply with the following requirements to maintain *WADA* accreditation:

#### 4.1.4.2.1 Payment of Annual Re-Accreditation Fee

WADA shall invoice the <u>Laboratory</u> for a non-refundable annual re-accreditation fee to partially cover the costs related to the re-accreditation process, including the <u>Laboratory</u>'s participation in the WADA <u>EQAS</u> as well as other <u>Laboratory</u>-related monitoring activities. This fee shall be determined by WADA.

# 4.1.4.2.2 Document Compliance with the ISL Code of Ethics

The <u>Laboratory</u> shall maintain and document compliance with the provisions of the ISL Code of Ethics (see Article 8.0).

- a) All staff employed at the <u>Laboratory</u>, permanent or temporary, shall also read, agree to and sign the ISL Code of Ethics.
- b) The <u>Laboratory</u> shall establish a system requiring <u>Laboratory</u> staff to report any alleged breaches of the ISL Code of Ethics to the <u>Laboratory</u> Director, which the <u>Laboratory</u> Director shall report to *WADA*. However, if <u>Laboratory</u> staff suspect that the <u>Laboratory</u> Director may have breached the ISL Code of Ethics, the <u>Laboratory</u> staff shall report the alleged breaches of the ISL Code of Ethics directly to *WADA*. The <u>Laboratory</u> Director and/or the <u>Laboratory</u>'s host organization and/or *WADA*, as applicable, shall immediately and thoroughly investigate any alleged breach of the ISL Code of Ethics.
- c) If the <u>Laboratory</u>'s investigation determines that a breach of the ISL Code of Ethics occurred, the <u>Laboratory</u> Director and/or the <u>Laboratory</u>'s host organization shall immediately inform *WADA* of the results of the investigation and the disciplinary actions taken. *WADA* may also request further sanctions or implement sanctions as a result of its own investigation. Sanctions may range from a personal reprimand to the expulsion of the implicated <u>Laboratory</u> staff member(s), the reporting of the breach to the pertinent authorities (e.g., law enforcement) or the <u>Suspension</u> or <u>Revocation</u> of the <u>Laboratory</u>'s *WADA* accreditation.



- d) On an annual basis, and upon WADA's request, the <u>Laboratory</u> shall provide a letter of compliance with the provisions of the ISL Code of Ethics, signed by the <u>Laboratory</u> Director.
- e) Upon *WADA's* request, the <u>Laboratory</u> shall provide additional documentation of compliance with the provisions of the ISL Code of Ethics.

# 4.1.4.2.3 Maintain Professional Liability Insurance Coverage

Upon WADA's request, <u>Laboratories</u> shall provide documented evidence that professional liability risk insurance coverage is maintained of no less than two (2) million USD annually (for example, evidence of timely payment of applicable fees and premiums).

#### 4.1.4.2.4 Maintain ISO/IEC 17025 Accreditation

The <u>Laboratory</u> shall maintain accreditation to ISO/IEC 17025, with primary reference to the analysis of *Samples* (Article 5.0), which is granted by an AB that is a full member of the Global Accreditation Cooperation Inc. and a signatory to the MRA of the Global Accreditation Cooperation Inc. or, if not, is full member of one of the approved and recognized Regional Cooperation Bodies (i.e., AFRAC, APAC, ARAC, EA, IAAC, SADCA).

- a) Inclusion of an <u>ATP</u> within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation (fixed or flexible scope) establishes that the <u>ATP</u> is <u>Fit-for-Purpose</u>, and the <u>Laboratory</u> shall not be required to provide <u>Analytical Method</u> validation documentation or <u>EQAS</u> performance data to any third party in support of an analytical finding.
- b) <u>Laboratories</u> shall include <u>ATPs</u> within their Scope of ISO/IEC 17025 Accreditation prior to their application to the analysis of *Samples*.
  - i. Under exceptional circumstances, and upon informing WADA, a <u>Laboratory</u> may apply a <u>Test</u> <u>Method</u>, which has been validated in conformity with ISO/IEC 17025 and ISL requirements, including its applicable ISL TDs and ISL TLs, to the analysis of Samples before its inclusion into the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation.

[Comment to Article 4.1.4.2.4 b): For example, upon request\_by the <u>Testing Authority</u> (<u>TA</u>) (or <u>Results Management Authority</u> (<u>RMA</u>), if different), and after informing WADA, the <u>Laboratory</u> may apply a validated WADA-specific <u>ITP</u> that is not included in



its ISO/IEC 17025 Scope of Accreditation or for which analytical/reporting requirements have not been defined by WADA. The <u>Laboratory</u> shall retain any Samples producing a <u>Presumptive Adverse Analytical Finding (PAAF)</u> until the confirmation/reporting requirements have been established by WADA (in an ISL TD, ISL TL or <u>LGs</u>), after which the <u>Laboratory</u>, in consultation with the <u>TA</u> (or <u>RMA</u>, if different), may proceed to performing the validated <u>CP</u> and reporting the result in ADAMS accordingly.]

- ii. In such cases, the <u>Laboratory</u> would not automatically benefit from the presumption that the <u>Test Method</u> is <u>Fit-for-Purpose</u>, as would otherwise be the case if the <u>ATP</u> is included within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation.
- iii. Consequently, any AAF reported by applying a <u>Test Method</u>, which is not within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation, may imply that the <u>Laboratory</u> is required to provide <u>Test Method</u> validation documentation or <u>EQAS</u> performance data in support of that AAF.
- c) Flexible Scope of ISO/IEC 17025 Accreditation <sup>5</sup>

A <u>Laboratory</u> may modify or add <u>Analytes</u> to <u>ATPs</u>, which are included within its Scope of ISO/IEC 17025 Accreditation or develop new <u>ATPs</u> that involve technology already included within the Scope of ISO/IEC 17025 Accreditation, without the need for approval by the AB that provides the ISO/IEC 17025 accreditation of that Laboratory.

[Comment to Article 4.1.4.2.4. c): The flexible system of ISO/IEC 17025 <u>Laboratory</u> accreditation shall be based on the assessment by the AB that the <u>Laboratory</u> has demonstrated competence to implement <u>Laboratory</u> processes and procedures following a Flexible Scope of ISO/IEC 17025 Accreditation system.

The flexible system of ISO/IEC 17025 <u>Laboratory</u> accreditation is important to ensure that <u>Laboratories</u> can promptly adapt their <u>ATPs</u> to detect new Prohibited Substances or Prohibited Methods, as well to apply new technical and scientific developments in <u>Analytical Testing</u> for Doping Control.]

d) The <u>Laboratories</u> are not eligible to apply a <u>Flexible</u> <u>Scope of ISO/IEC 17025 Accreditation</u> to the analysis of *Samples* in the following scenarios:

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<sup>5</sup> See the Global Accreditation Cooperation Inc. "TECH-1-007 Guidelines for Harmonization of Scopes of ISO/IEC 17025 Accreditation of WADA Anti-doping Laboratories" (previously known as the ILAC-G29/06:2020 Guidelines).



#### i. New ATPs

- Any <u>ATP</u> which is new to the field of anti-doping analysis shall be approved by *WADA* as <u>Fit-for-Purpose</u> prior to implementation by a Laboratory.
- WADA shall use whatever means deemed appropriate, including formal consultations with scientific expert working groups, publication(s) in peer-reviewed scientific journal(s), or participation in an inter-laboratory collaborative study(-ies) or WADA-organized <u>EQAS</u> round(s) to evaluate whether the <u>ATP</u> is <u>Fit-for-Purpose</u> prior to providing formal approval.
- Before a new <u>ATP</u> can be applied to the analysis of Samples, a <u>Laboratory</u> shall obtain an extension of their Scope of ISO/IEC 17025 Accreditation by their AB and may be required to successfully participate in an inter-laboratory collaborative study(-ies) or a <u>WADA EQAS</u>, if available.

# ii. WADA-specific ATPs

- WADA shall require the <u>Laboratory</u> to seek an extension of their Scope of ISO/IEC 17025
   Accreditation for WADA-specific <u>ATPs</u> before application to the analysis of Samples, even if the analytical technique involved is already incorporated in the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation.
- For more information on WADA-specific <u>ATPs</u>, refer to the ISL <u>TD ATP</u>.

# 4.1.4.2.5 Independence and Impartiality

The <u>Laboratory</u> shall be administratively and operationally independent from any organization that could exert undue pressure on the <u>Laboratory</u> and affect the impartial execution of its tasks and operations.

a) To be administratively independent, the <u>Laboratory</u> shall not be administered by, connected or subject to an *ADO*, sport organization or government Ministry of Sport or other government body or subsidiary responsible for or related to sport performance, including their Board Members, staff, Commission Members, or officials. This is necessary to avoid any



potential conflicts of interest and ensure full <u>Laboratory</u> independence in their <u>Analytical Testing</u> and reporting procedures, and to provide confidence in the <u>Laboratory</u>'s impartiality, judgment, and operational integrity, in compliance with ISO/IEC 17025.

- b) To be operationally independent, the <u>Laboratory</u> shall operate according to its own Management System and function without obstruction, interference, or manipulation from any *Person*. The <u>Laboratory</u> shall control, without limitation, the allocation of its budget, the acquisition of equipment and other resources, decisions regarding <u>Laboratory</u> personnel, R&D activities conducted by the <u>Laboratory</u> and all *Sample Analytical Testing* and reporting of results.
- c) The <u>Laboratory</u> shall have a dedicated budget allowing the implementation of an efficient approval process for the timely procurement of necessary <u>RMs</u>, reagents, consumables, and essential equipment, as well as independent <u>Laboratory</u> management decisions concerning the recruitment, retention and training of staff, participation in scientific meetings and symposia, etc.

This does not prevent the <u>Laboratory</u> from receiving research grants or other financial support from their host organization (e.g., university, hospital, private organization, public institution), *ADO*s, sport organizations, government, or other sponsors, while following applicable accounting regulations in connection with the receipt and management of those funds.

d) In accordance with ISO/IEC 17025, the <u>Laboratory</u> shall be a legal entity, or a defined part of a legal entity, which is legally responsible for its activities.

# 4.1.4.2.6 Participate in the WADA External Quality Assessment Scheme

<u>Laboratories</u> shall participate in the *WADA* <u>EQAS</u> on a continuous basis and meet the performance requirements of the <u>EQAS</u> as described in the ISL *TD* <u>EQAS</u>.

#### 4.1.4.2.7 Provide Renewed Letter(s) of Support

WADA reserves the right to request <u>Laboratories</u> to provide renewed letter(s) of support, as described in Article 4.1.1.3, from Signatory(-ies) and/or DTP(s) based on the



assessment of the <u>Laboratory</u>'s annual *Testing* figures, or as otherwise determined by *WADA*.

# 4.1.4.2.8 Maintain Minimum Number of Samples

a) To maintain proficiency in <u>Analytical Testing</u>, the <u>Laboratory</u> is required to analyze a minimum of 3,000 <u>Samples</u> (including urine, whole blood <sup>4</sup> and DBS <u>Samples</u>), of which at least 2,500 shall be urine <u>Samples</u>, provided by <u>Signatory</u>(-ies) and/or <u>DTP</u>(s) in charge of <u>Samples</u> collection on behalf of <u>ADO</u>(s) annually.

[Comment to Article 4.1.4.2.8 a): To determine the minimum number of Samples, each Sample type (urine, blood, ABP blood Sample and DBS Sample) analyzed by the <u>Laboratory</u> shall count as an individual Sample.]

- b) WADA shall monitor the number of Samples tested by the Laboratory. If the total number of Samples analyzed for Signatory(-ies) and/or DTP(s) falls below 3,000 annually (or below 2,500 urine Samples annually), the Laboratory's WADA accreditation may be suspended (see Article 7.1.1).
- c) However, it is recognized that specific circumstances may affect a Laboratory's ability to analyze the minimum number of *Samples* annually, such as when a Signatory is declared non-compliant with the Code by WADA, or when the Laboratory is not operational, for reasons accepted by WADA. In such cases, the Laboratory's WADA accreditation status may not be affected but WADA shall require that the Laboratory implement measures to maintain its proficiency in Analytical *Testing*, for example, by strengthening its internal Quality Assessment Scheme (iQAS) and Internal Audits (IA) program. WADA may also provide additional <u>EQAS</u> samples and/or conduct a Documentary Audit and/or an On-site or Remote Assessment, at its discretion and at the Laboratory's expense, to assess the status of the Laboratory's operations.

# 4.1.4.2.9 Implement Research and Development and Sharing of Knowledge Activities

The <u>Laboratory</u> shall implement R&D activities in the field of anti-doping science. The <u>Laboratory</u> shall also demonstrate its willingness and ability to share its knowledge with other <u>Laboratories</u> in the field. The maintenance by the Laboratory of an adequate R&D and



Sharing of Knowledge programs is a mandatory condition for maintaining *WADA* accreditation.

a) The <u>Laboratory</u> shall develop an R&D program to support and expand the scientific foundation of *Doping Control*.

[Comment to Article 4.1.4.2.9 a): Research activities may include the development of new <u>Analytical Methods</u> or technologies for detection of Use of Prohibited Substances or Prohibited Methods, the pharmacological characterization of a new doping agent, the chemical synthesis of new emerging or non-commercially available substances/Metabolites, the preparation of biological reference samples or the discovery of new biomarkers of doping, and other topics relevant to the field of Doping Control.]

b) When the <u>Laboratory</u> becomes aware of information on new doping substance(s), method(s), or practice(s), either through the production of new knowledge by the <u>Laboratory</u> (for instance based on untargeted analytical approaches) or by other means, such information shall be reported to *WADA* within sixty (60) days (encrypted e-mail, or other written forms of *WADA*-approved secure communication, with confirmation of receipt, shall be accepted as a reporting mechanism).

To the extent possible, the <u>Laboratories</u> shall share information regarding the detection of potentially new or rarely detected doping agents with *WADA* as soon as possible. Immediately upon learning of the *Use* of a new substance or method as a doping agent, *WADA* shall notify all <u>Laboratories</u>.

c) The <u>Laboratory</u> shall participate in developing standards of best practice and enhancing uniformity of <u>Analytical Testing</u> in the WADA-accredited Laboratory system.

[Comment to Article 4.1.4.2.9 c): Sharing of knowledge can be achieved in a variety of ways, including but not limited to, communicating directly with WADA, actively participating in scientific meetings, publishing results of research, sharing specific details of <u>Analytical Methods</u>, working with WADA to produce and/or distribute new <u>RM(s)</u> or <u>RC(s)</u>.]

- d) The <u>Laboratory</u> shall document in its Management System the organization and planning of their R&D and Sharing of Knowledge activities, including but not limited to, the following:
  - i. The qualified *Person*(s) responsible for R&D activities (see Article 5.2.2.3).



- ii. A sustainable R&D strategy and long-term plan, including objectives, planned deliverables, timelines and a knowledge dissemination scheme.
- iii. A defined annual R&D budget. Describe the R&D funding strategy, including sources of funding (e.g., internal, institutional, external providers of research grants) to achieve adequate R&D outcomes.
- iv. Consideration of ethical aspects of R&D (see ISL Code of Ethics) and, where appropriate, a plan for the development and protection (through patents, trademarks, and other legal mechanisms) of any intellectual property.
- v. A Management System document pertaining to the secondary use of Samples or Aliquots for research or Quality Assurance purposes, including the requirement to obtain Athlete consent for use of Samples for research purposes and a procedure for de-identification of Samples and Aliquots (see Article 5.3.8.2).
- e) The <u>Laboratory</u> shall make every effort, in consideration of its human, financial and technical resources, to attain adequate R&D outcomes and contribute to the advancement of anti-doping science. The <u>Laboratory</u> shall meet the following minimum targets as part of their R&D and Sharing of Knowledge programs:
  - i. Publish at least one (1) publication every two (2) years in a peer-reviewed international scientific journal with an associated impact factor.
    - [Comment to Article 4.1.4.2.9 e): The publication(s) may also include co-authored papers resulting from collaborative studies. In such cases, WADA may request the <u>Laboratory</u> to provide a Contributor Roles Taxonomy (CRediT) statement.]
  - Make at least one (1) annual contribution to a national or international anti-doping symposium or conference.
  - iii. In addition, the <u>Laboratory</u> is encouraged to participate in collaborative research projects with other <u>Laboratories</u> and exchange experience, protocols, arrange for visits of specialists, and provide training to other <u>Laboratories</u> and <u>Probationary laboratories</u> in specific areas of Analytical *Testing*.



- iv. On a biennial basis, and upon provision of a template report by WADA, the <u>Laboratory</u> shall produce a R&D and Sharing of Knowledge Activity Report, which shall serve as the basis for assessing the <u>Laboratory</u>'s contribution to the development of antidoping science.
  - Following the evaluation of the <u>Laboratory</u>'s R&D and Sharing of Knowledge Activity Report by the <u>Lab EAG</u>, further details or Corrective Actions may be requested from the <u>Laboratory</u> to address and improve identified deficiencies.
  - Failure to satisfactorily address the identified deficiencies in a reasonable timeframe, as determined by the <u>Lab EAG</u>, may result in the assignment of points (see ISL *TD* PERF) and/or in a <u>Lab EAG</u>'s recommendation to the Chair of the *WADA* Executive Committee to suspend the Laboratory's *WADA* accreditation.

# 4.1.4.2.10 Publish <u>Laboratory</u> <u>Analytical Testing Procedures</u> and Services

The <u>Laboratory</u> shall report and maintain in *ADAMS* an up-to-date list of <u>ATPs</u> and services to assist *ADOs* in developing <u>TDPs</u>. Upon request by an *ADO*, the <u>Laboratory</u> should cooperate by providing other relevant information.

#### 4.1.4.2.11 Participate in WADA / AB Assessments

- a) AB Assessment during the Accreditation Cycle
  - i. The AB shall be a full member of the Global Accreditation Cooperation Inc. and a signatory to the MRA of the Global Accreditation Cooperation Inc. or, if not, it shall be a full member of one of the approved and recognized Regional Cooperation Bodies (i.e., AFRAC, APAC, ARAC, EA, IAAC, SADCA).
  - The AB Assessment team shall include at least one ISL-trained assessor selected by the AB for the Assessment.
  - iii. The relevant AB should inform WADA of the anticipated Assessments and send a summary of the Assessment Report, in English or French, as well as the <u>Laboratory</u> responses to the Assessment findings in a timely fashion to WADA.



Should the <u>Laboratory</u> prefer to provide the Assessment Report summary directly to *WADA*, it shall do so within thirty (30) days from receiving the AB's Assessment Report.

iv. The <u>Laboratory</u> shall provide *WADA* with an updated copy of the ISO/IEC 17025 Certificate and Scope of ISO/IEC 17025 Accreditation as soon as it is obtained from the AB.

# b) WADA Laboratory Assessment

WADA shall conduct On-site and/or Remote Assessments and/or <u>Laboratory</u> Document Audits as part of WADA's Regular Laboratory Monitoring Activities. The notice of a WADA <u>Laboratory</u> Assessment shall be made in writing to the <u>Laboratory</u> Director. In exceptional circumstances, and at WADA's discretion, the Assessment may be unannounced (see also Article 6.1.2).

# 4.1.4.2.12 Issuing and Publication of Accreditation Certificate

- a) On an annual basis, when maintenance of accreditation is approved, the <u>Laboratory</u> shall receive a <u>WADA</u> Accreditation Certificate. The Accreditation Certificate shall specify the name of the <u>Laboratory</u> and the period for which the Accreditation Certificate is valid. <u>WADA</u> Accreditation Certificates may be issued after the effective date, with retroactive effect.
- b) The list of <u>Laboratories</u>, and their contact information, is maintained on *WADA*'s website for stakeholder reference.



# 4.2 WADA ABP Laboratory Approval

The network of <u>Laboratories</u> may be geographically limited to serve the practical development of the Hematological Module of the *ABP*. Therefore, laboratories, which have the capability to analyze whole blood for the *Markers* of the Hematological Module of the *ABP*, may apply for *WADA ABP* approval if located in a region that cannot be served by a <u>Laboratory</u>.

This Article describes the specific requirements that a laboratory shall fulfill in the process of applying for, obtaining, and maintaining *WADA* approval for the *ABP*.

#### 4.2.1 Applicant ABP laboratory

In principle, a laboratory that satisfies the criteria listed below may apply to become a <u>Candidate ABP laboratory</u>. However, the <u>WADA</u> Executive Committee, at its sole discretion, may accept or deny a laboratory's application based on the identified needs (or lack thereof) for anti-doping <u>Analytical Testing</u> for the <u>ABP</u> on a regional or national scale, or for any other reason(s). The decision of the <u>WADA</u> Executive Committee shall be provided to the <u>Applicant ABP laboratory</u> in writing.

[Comment to Article 4.2.1: Once a laboratory has been approved as a <u>Candidate laboratory</u> for WADA accreditation, as per Article 4.1.2, that status is also applicable to the analysis of the Markers of the Hematological Module of the ABP in whole blood Samples.]

#### 4.2.1.1 Expression of Interest

The <u>Applicant ABP laboratory</u> shall officially contact *WADA* in writing to express its interest in becoming an *ABP* Laboratory.

#### 4.2.1.2 Submit Initial Application Form

The <u>Applicant ABP laboratory</u> shall submit a completed initial application form, provided by *WADA*, with supporting documentation for review by the Lab EAG.

A laboratory may only apply if its host country satisfies the following conditions:

a) It has a robust National Anti-Doping Program (in terms of <u>TDP</u>, ABP Sample collection and Results Management activities) conducted by a NADO, which is compliant with the Code and the International Standards of the World Anti-Doping Program.

[Comment Article 4.2.1.2 a): The National Anti-Doping Program in the host country of the <u>Applicant ABP laboratory</u> shall have demonstrated, in the most recent full year, that its whole blood Sample collection activities for analysis of the Markers of the Hematological Module of the ABP were conducted in compliance with the IST (as determined by WADA) and analyzed in a <u>Laboratory</u>(-ies) or <u>ABP Laboratory</u>(-ies).

By way of exception to this requirement, WADA may consider accepting an <u>Applicant ABP laboratory</u> from a country where such application is supported by other ADOs in the region which would ensure a robust Regional ABP Program.]



- b) It has ratified the UNESCO Convention against Doping in Sport, and
- c) It has paid the annual financial contribution to WADA.

These conditions shall be documented as part of the application.

# 4.2.1.3 Provide Letter(s) of Support

Upon receipt of an application and verification of the conditions mentioned above, *WADA* shall request that the <u>Applicant ABP</u> <u>laboratory</u> submit official letter(s) of support from *Signatory*(-ies) [e.g., *NADO*(s) responsible for National Anti-Doping Program(s), or International Federation(s) responsible for International Anti-Doping Program(s)] and/or *DTP*(s) in charge of *Sample* collection on behalf of *ADO*(s), collectively guaranteeing a minimum total number of 300 whole blood *Samples* for analysis of the *Markers* of the Hematological Module of the *ABP* annually. The letter(s) of support shall indicate:

- a) The estimated number of whole blood *Samples* for analysis of the *Markers* of the Hematological Module of the *ABP* that will be provided to the *ABP* laboratory annually; and
- b) The reason(s) why an existing <u>Laboratory</u> or <u>ABP Laboratory</u> is not a viable option for the *Signatory's ABP* program.
- c) A declaration by the supporting *Signatory*(-ies) that their relationship with the <u>Applicant ABP laboratory</u> is compliant with Article 4.1.4.2.5.

#### 4.2.1.4 Provide Business Plan

The <u>Applicant ABP laboratory</u> shall submit a business plan, upon request by *WADA*, which shall include market considerations (customers, number of *Samples*, maintenance costs, etc.), facility, instrumental, staffing and training plans, and shall guarantee the long-term provision of adequate financial and human resources to the laboratory. The business plan shall be provided by the <u>Applicant ABP laboratory</u> within eight (8) weeks of *WADA*'s request.

#### 4.2.2 Candidate *ABP* laboratory

The application materials described in Articles 4.2.1.2 to 4.2.1.4 shall be evaluated by WADA. If WADA, upon advice by the Lab EAG, determines that the applicant <u>ABP laboratory</u> has satisfactorily met the criteria, a recommendation shall be forwarded to the WADA Executive Committee to determine whether the <u>Applicant ABP laboratory</u> shall be granted WADA Candidate <u>ABP laboratory</u> status and thereby continue within the WADA ABP approval process. Additional supporting documentation may be requested by, and at the discretion of, the WADA Executive Committee. The decision of the WADA Executive Committee shall be provided to the <u>Candidate ABP</u> laboratory in writing.



# 4.2.2.1 <u>Candidate ABP laboratory</u> Administrative and Technical Capabilities

Once approved by the *WADA* Executive Committee, the <u>Candidate ABP</u> laboratory shall complete a detailed questionnaire provided by *WADA* and submit it to *WADA* within eight (8) weeks of receipt. The questionnaire shall include, but is not limited to, the following information:

- a) Sources of laboratory funding (list of laboratory sponsors).
- b) List of laboratory staff that will be responsible for the *ABP* analyses and their qualifications.
- c) Laboratory facilities and physical security: see Article 5.2.3.1.
- d) IT infrastructure and security: see Article 5.2.3.5.
- e) List of actual and proposed instrumental resources and equipment for the *ABP*, including instrument maintenance plans and contracts.
- f) Status of ISO/IEC 17025 or ISO 15189 accreditation.
- g) Development and validation status of the <u>Test Method</u> for the analysis of the *Markers* of the Hematological Module of the *ABP*. Test Method Validation Report (if completed).
- h) Status of laboratory's independence and impartiality as described in Article 4.1.4.2.5.
- Description of customs regulations in the host country with respect to the importation of blood Samples and consumables and the ability to ship blood Samples outside the country as needed.
- j) A description of how the principles of the ISL Code of Ethics are integrated into the laboratory's Management System as described in Article 4.2.2.2.
- k) A description of the process to ensure that ABP Samples are processed and analyzed separately from clinical or other test samples, where applicable.

WADA may require an update of this documentation during the ABP approval process.

[Comment to Article 4.2.2.1: The <u>Candidate ABP laboratory</u> is encouraged to establish agreement(s) with a <u>Laboratory</u>(-ies) for mentoring and training to ensure successful preparation towards obtaining the WADA ABP approval.]



#### 4.2.2.2 Compliance with the ISL Code of Ethics

The <u>Candidate ABP laboratory</u> shall implement and comply with the provisions of the ISL Code of Ethics (see Article 8.0).

- a) The <u>Candidate ABP laboratory</u> shall not conduct any anti-doping <u>Analytical Testing</u> activities for ADOs and shall not accept <u>Samples</u> directly from individual <u>Athletes</u> or from individuals or organizations acting on their behalf.
- b) The Director of the <u>Candidate ABP laboratory</u> shall provide the ISL Code of Ethics to all laboratory employees operating in the *ABP* and ensure their understanding and compliance with all aspects of the ISL Code of Ethics.
- c) A letter of compliance with the ISL Code of Ethics shall be signed by the laboratory Director and provided to *WADA*.

# 4.2.2.3 Participate in the WADA <u>External Quality Assessment Scheme</u> for the Analysis of the *Markers* of the Hematological Module of the *ABP*

The <u>Candidate ABP laboratory</u> shall be required to participate, at its own cost, in at least three (3) <u>WADA EQAS</u> rounds for the analysis of the <u>Markers</u> of the Hematological Module of the <u>ABP</u> with satisfactory performance (see ISL <u>TD PERF</u>). During this period, <u>WADA</u> may provide feedback to assist the <u>Candidate ABP laboratory</u> to improve the quality of its <u>Analytical Testing</u> process.

# 4.2.2.4 Independence and Impartiality

Before *WADA* grants *ABP* approval and to avoid potential conflicts of interest, the <u>Candidate ABP laboratory</u> shall complete a *WADA* independence and impartiality questionnaire which demonstrates that, before obtaining *WADA ABP* approval, the laboratory will comply with the requirements of <u>Laboratory</u> independence and impartiality indicated in Article 4.1.4.2.5.

#### 4.2.2.5 Obtain ISO/IEC 17025 or ISO 15189 Accreditation

The <u>Candidate ABP laboratory</u> shall obtain ISO/IEC 17025 or ISO 15189 accreditation for the analysis of the <u>Markers</u> of the Hematological Module of the <u>ABP</u> from an AB.

- a) The AB shall be a full member of the Global Accreditation Cooperation Inc. and a signatory to the MRA of the Global Accreditation Cooperation Inc. or, if not, it shall be full member of one of the approved and recognized Regional Cooperation Bodies (i.e., AFRAC, APAC, ARAC, EA, IAAC, SADCA).
- b) The AB Assessment team shall include at least one ISL-trained assessor selected by the AB for the Assessment.



- c) The laboratory shall correct and document any identified nonconformities with the ISO/IEC 17025 or ISO 15189 requirements within defined timelines.
- d) The AB should send a summary of the Assessment Report and any corrective/preventive action documentation addressing identified nonconformities, in English or French, to WADA. Should the <u>Candidate ABP</u> laboratory prefer to send the information directly to WADA, the laboratory shall do so within a reasonable timeline.

A valid ISO/IEC 17025 or ISO 15189 Accreditation Certificate and Scope of Accreditation shall be provided to *WADA* before the *ABP* approval can be granted.

# 4.2.2.6 WADA On-site Assessment for the ABP Approval

WADA shall conduct an On-site Assessment of the <u>Candidate ABP</u> <u>laboratory</u> once WADA has determined that the <u>laboratory</u> has successfully completed all the requirements outlined in Articles 4.2.2.1 to 4.2.2.5.

[Comment to Article 4.2.2.6: The purpose of this On-site Assessment is to obtain information about different aspects of the <u>Candidate laboratory</u>'s competence and verify compliance with the relevant ISL and ISL TD requirements (in particular, the ISL TD HEM).

At WADA's discretion, the On-site Assessment for the ABP approval may not be necessary or may be conducted online or as a document-based audit, in cases of previously accredited or WADA-approved laboratories.]

- a) The On-site Assessment shall be conducted at the <u>Candidate</u> *ABP* laboratory's expense.
- b) The <u>Candidate ABP laboratory</u> shall have participated in a minimum of one (1) <u>WADA EQAS</u> round before the On-site Assessment is conducted.
- c) WADA shall provide an Assessment Report regarding the outcomes of the On-site Assessment, including any identified nonconformity(-ies), to allow the <u>Candidate ABP laboratory</u> to implement the necessary improvements. Nonconformities shall be satisfactorily addressed and reported by the <u>Candidate ABP</u> <u>laboratory</u> to <u>WADA</u> within thirty (30) days, or as otherwise indicated by <u>WADA</u>.
- d) The nonconformities identified in the *WADA* Assessment Report shall be satisfactorily addressed before the end of the candidate *ABP* approval phase as per Article 4.2.2.8.

The <u>Candidate ABP laboratory</u>'s performance in the <u>WADA EQAS</u> and On-site Assessment shall be considered in the overall review of



the laboratory's status and may affect the timeliness of the WADA approval.

# 4.2.2.7 Obtain Professional Liability Insurance Coverage

Before *WADA* grants *ABP* approval, the <u>Candidate *ABP* laboratory</u> shall provide documentation to *WADA* that professional liability risk insurance coverage has been obtained to cover liability of no less than one (1) million USD annually.

# 4.2.2.8 Duration of Candidate ABP Approval Phase

The maximum length of time during which a laboratory can remain as a <u>Candidate ABP laboratory</u> is one (1) year, unless <u>WADA</u> determines that there are exceptional circumstances that justify an extension of this period.

## 4.2.3 ABP Laboratory

# 4.2.3.1 Granting of WADA ABP Approval

Once the <u>Lab EAG</u> has evaluated the <u>Candidate ABP laboratory</u>'s progress and determined that all approval requirements (outlined in Articles 4.2.2) have been satisfactorily met, the <u>Lab EAG</u> shall submit a recommendation to the *WADA* Executive Committee to grant the laboratory the status of an *ABP* Laboratory.

# 4.2.3.2 Maintain <u>ABP Laboratory</u> Status

The <u>ABP Laboratory</u> shall meet the following requirements to maintain its ABP approval status:

- a) Documented compliance with the ISL Code of Ethics (see Article 8.0).
- b) Maintenance of Professional Liability Insurance Coverage to cover liability of no less than one (1) million USD annually.
- c) Maintenance of a valid ISO accreditation (ISO/IEC 17025 or ISO 15189).
- d) Maintenance of laboratory independence and impartiality (see Article 4.1.4.2.5).
- e) Satisfactory performance in the analysis of the *Markers* of the Hematological Module of the *ABP*, as determined by *WADA*, in a *WADA* <u>EQAS</u> or similar *WADA*-approved Proficiency Testing program and during routine <u>Analytical Testing</u>.
- f) Payment of fees related to the *WADA* <u>EQAS</u> or similar *WADA*-approved Proficiency Testing program for the analysis of the *Markers* of the Hematological Module of the *ABP*.



- g) Availability of the relevant analytical instrumentation and consumables (e.g., quality control samples, reagents), which is compliant with the requirements of the Hematological Module of the ABP, as determined by WADA.
- h) Implementation of the <u>ATP(s)</u> for the analysis of the *Markers* of the Hematological Module of the *ABP*, which are compliant with the ISL *TD* HEM.
- i) Compliance with relevant WADA normative documents, including the ISL Article 5.0 and ISL TDs applicable to the analysis of whole blood Samples for the Markers of the Hematological Module of the ABP (e.g., ISL TD HEM, ISL TD LDOC, ISL TD LCOC).
- j) Provision of Letter(s) of support from *Signatory*(-ies) and or *DTP*(s), if requested by *WADA*, as described in Article 4.2.1.3.
- k) Analysis of the *Markers* of the Hematological Module of the *ABP* in a minimum of 300 whole blood *Samples* provided by *Signatory*(-ies) and/or *DTP*(s) in charge of *Sample* collection on behalf of *ADO*(s) annually.
- I) Participation in WADA / AB Assessments (see Article 4.1.4.2.11).
- m) Cooperation in support of the *Results Management* activities of *ADOs*.

#### 4.2.3.3 Issuing and Publishing WADA ABP Approval Certificate

- a) On an annual basis, if the ABP approval is maintained, the <u>ABP</u> <u>Laboratory</u> shall receive a renewed WADA ABP Approval Certificate.
- b) The WADA ABP Approval Certificate shall specify the name of the ABP Laboratory and the period of validity. WADA ABP Approval Certificates may be issued after the effective date of the WADA approval, with retroactive effect.
- c) A list of <u>ABP Laboratories</u>, and their contact information, shall be maintained on *WADA*'s website for stakeholder reference.

#### 4.3 <u>Laboratory Accreditation Requirements for Major Events</u>

- a) The accreditation requirements described herein apply to those <u>Major Events</u>, which would require either a significant increase of the existing <u>Laboratory</u>'s resources and capacity or the establishment of a temporary "satellite facility" by an existing Laboratory to conduct appropriate <u>Doping Control</u>.
- b) The <u>Laboratory</u> shall advise *WADA* when it becomes aware that they will be providing <u>Analytical Testing</u> services for a <u>Major Event</u>.
- c) Major Event Organizations (MEOs) should give preference to the use of an existing Laboratory for the analysis of Samples. However, in some cases, the reporting



- time requirements for a <u>Major Event</u> may require that a <u>Laboratory</u> facility be in proximity to the <u>Major Event</u> such that <u>Samples</u> can be delivered to the <u>Laboratory</u> with minimal delay. This may require an existing <u>Laboratory</u> to establish a temporary "satellite facility" with appropriate capabilities for the <u>Major Event</u>.
- d) In addition, an existing <u>Laboratory</u>'s operational environment (e.g., facilities, analytical capabilities, staff) may not be adequate for the analytical and <u>Sample</u> processing capacity necessary for the <u>Major Event</u>. This may require the expansion of a <u>Laboratory</u>'s existing facilities, the relocation to a new permanent facility, the addition of personnel, and/or the acquisition of additional equipment. The <u>Director</u> of the <u>Laboratory</u> designated to perform the <u>Analytical Testing</u> for the <u>Major Event</u> shall ensure that a proper Management System is implemented to maintain the performance, security and safety required.
- e) There shall be a written agreement, at least three (3) months before the start of the Major Event (for Olympic and Paralympic Games, it is recommended that agreements are finalized at least six (6) months before the scheduled start of the Analytical Testing), between the MEO (or DTP delegated to undertake Doping Control responsibilities for the Major Event) and the Laboratory with respect to Analytical Testing requirements such as the TDP (including the expected number of urine, whole blood <sup>4</sup>, and DBS Samples to be analyzed, the Analytical Testing menus to be applied, etc.) and test result turnaround times. The timing of the agreement shall consider the number of expected Samples and ATPs, and how they would impact the Laboratory's operational capabilities.
- f) Upon WADA's request, the <u>Laboratory</u> shall be responsible for providing WADA with regular and timely progress reports regarding its preparation for the <u>Major Event</u>.

# 4.3.1 Major Event Analytical Testing in the Laboratory Facilities

- a) When <u>Analytical Testing</u> services for a <u>Major Event</u> are provided in the existing facilities of a <u>Laboratory</u>, the <u>WADA</u> accreditation status of the <u>Laboratory</u> shall apply, and no additional <u>WADA</u> Accreditation Certificate for the <u>Major Event</u> is required. However, the <u>Laboratory</u> shall meet the requirements listed below in Articles 4.3.1.1 to 4.3.1.6.
- b) All new <u>Test Methods</u> required for the <u>Major Event</u> shall be validated at least two (2) months prior to the start of <u>Analytical Testing</u> for the <u>Major Event</u>, unless otherwise approved by *WADA*.
- c) In addition, any changes to <u>Test Methods</u>, equipment or other procedures in the Management System shall be validated and included in the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation prior to the start of <u>Analytical Testing</u> for the <u>Major Event</u>.

#### 4.3.1.1 Participate in WADA Laboratory Assessment(s)

WADA may perform one or more Assessments (preferably on-site) of the <u>Laboratory</u>'s existing facilities with the aim of evaluating the



<u>Laboratory</u> operations and the capability to provide <u>Analytical Testing</u> services for the <u>Major Event</u>.

- a) The number and type of WADA <u>Laboratory</u> Assessments (Onsite, Remote or Documentary Audit) shall be determined by WADA based on the scale of the <u>Major Event's TDP</u> and the <u>Laboratory</u>'s progress in preparing for the <u>Major Event</u>. The Assessment(s) may also include the analysis of <u>EQAS</u> samples.
- b) Costs related to the *WADA* <u>Laboratory</u> Assessments shall be at the <u>Laboratory</u>'s expense.
- c) A first WADA Assessment should be conducted no later than three (3) months before the scheduled start of the Testing for the Major Event (no later than six (6) months for Olympic and Paralympic Games). Emphasis shall be placed on the following:
  - i. The latest version of the <u>TDP</u> provided by the *MEO* (or *DTP* delegated to undertake *Doping Control* responsibilities for the <u>Major Event</u>) to assess the adequacy of the <u>Laboratory</u>'s plans to meet the *Testing* requirements (e.g., facilities, staff, as well as <u>Analytical Testing</u> capabilities).
  - ii. The physical layout of the <u>Laboratory</u> facilities to ensure that there is adequate analytical and *Sample* processing capacity (based on the expected number of *Samples* and requested reporting deadlines), including the separation of analytical and administrative areas of the <u>Laboratory</u>.
  - The <u>Laboratory</u>'s external security, including the entry and exit points which shall be restricted to authorized personnel only.
  - iv. The <u>Laboratory</u>'s internal security, including restricted and dedicated <u>Laboratory</u> controlled zones (in particular, the analytical area(s), the *Sample* reception/processing room and the *Sample* storage units).
    - [Comment to Article 4.3.1.1 c)-iv: If requested by the MEO and in accordance with applicable national laws or workplace regulations, a <u>Laboratory</u> providing <u>Analytical Testing</u> services during a <u>Major Event</u> or storing Samples collected at a <u>Major Event</u> should, when justified, monitor the <u>Laboratory</u> perimeter and the access point(s) to Sample storage room(s) (e.g., monitoring via CCTV cameras).]
  - v. The <u>Laboratory</u>'s dedicated space and security measures for the "B" *Sample* opening procedure, including appropriate provisions to ensure the *Athlete*(s) attendance is kept confidential and protected from unsolicited external attention.
  - vi. The <u>Laboratory</u>'s IT security system, including restricted and secure central server(s), data management system [e.g.,



- <u>Laboratory</u> Information Management System (LIMS)], internal network and controlled access to the internet, if applicable.
- vii. The <u>Laboratory</u>'s Organizational Chart for the <u>Major Event</u>, including the <u>Laboratory</u> staff and the planned expansion of staff, including external experts. Details shall include names, qualifications, area(s) of operation and responsibilities. In addition, the Organizational Chart shall identify the Certifying Scientists (internal and external experts) per <u>ATP</u>.
- viii. The recruitment, training and logistics plans for the external scientists, including the names, expertise, and area(s) of contribution for the <u>Major Event</u>.
- ix. The capacity of the <u>Laboratory</u>'s existing instrumentation and equipment, including the plan and timelines to order, install and verify additional instrumentation to meet the <u>Analytical Testing</u> requirements for the Major *Event*.
- x. The capacity of the <u>Laboratory</u>'s existing <u>ATPs</u>, including plans and timelines for method development and/or validation of any additional required <u>ATP(s)</u> two (2) months prior to the start of the <u>Testing</u> period for the <u>Major Event</u>.
- xi. The <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation, including timelines for any planned additions to the Scope of Accreditation.
- xii. The status of the <u>Laboratory</u>'s stock of <u>RMs</u>, including the plans to order, qualify and validate any new <u>RMs</u> and/or <u>RCs</u>.
- xiii. The <u>Laboratory</u>'s iQAS and IA program, including the expansion of these programs to include new <u>Test Methods</u>.
- xiv. The <u>Laboratory</u> plans and timelines for conducting "stress test(s)" to assess its performance of the <u>Major Event</u> <u>Analytical Testing</u> process. At least one (1) stress test shall be completed by the time the <u>Laboratory</u> is in its final configuration for the <u>Major Event</u>. The stress test(s) shall be conducted no later than two (2) months before the start of the <u>Testing</u> period for the <u>Major Event</u>.
- xv. Assessment of compliance with the ISL and its related ISL *TD*s and ISL *TL*s.
- d) WADA, at its sole discretion and depending on the progress of the <u>Laboratory</u> in preparation for the <u>Major Event</u>, may conduct additional Assessments of the <u>Laboratory</u> at the <u>Laboratory</u>'s expense, before the scheduled start of *Testing* for the <u>Major Event</u>.



- e) The final WADA <u>Laboratory</u> Assessment should be conducted no later than one (1) month before the start of *Testing* for the <u>Major Event</u>. At this stage, the <u>Laboratory</u> shall be ready to begin <u>Analytical Testing</u> for the <u>Major Event</u>, including pre-Event Testing, if applicable. The focus of the Assessment is to verify that:
  - All infrastructure requirements are completed, including any specific measures to ensure the adequacy of the physical layout and security of the <u>Laboratory</u> and the "B" <u>Sample</u> opening procedure.
  - ii. All measures have been implemented to ensure the adequacy of the <u>Laboratory</u>'s IT security system.
  - iii. All required <u>Analytical Methods</u> are validated and incorporated in the <u>Laboratory</u>'s ISO/IEC 17025 Scope of Accreditation, unless otherwise approved by *WADA*.
  - iv. All required equipment and supplies are received, including RMs and/or RCs.
  - v. All staff recruitment is completed, including agreements, logistics and schedules for external experts.
  - vi. All Corrective Actions from the prior *WADA* <u>Laboratory</u> Assessment(s) have been satisfactorily addressed.
  - vii. The <u>Laboratory</u> has successfully conducted at least one (1) "stress test" to evaluate its readiness for the Major *Event*.
- f) Any remaining issue(s) shall be addressed by the <u>Laboratory</u> before <u>Analytical Testing</u> for the <u>Major Event</u> is scheduled to begin.
- g) An Assessment Report shall be issued to the <u>Laboratory</u> and the <u>Lab EAG</u> within thirty (30) days of each *WADA* Assessment. The <u>Laboratory</u> shall address and satisfactorily correct all noncompliances identified during the *WADA* Assessment(s) and/or resulting from its analysis of <u>EQAS</u> samples. The documentation of the Corrective Actions shall be submitted to *WADA* as instructed and evaluated by *WADA* as satisfactory prior to the start of *Testing* for the Major *Event*.
- h) WADA shall inform the MEO (or DTP delegated to undertake Doping Control responsibilities for the Major Event), and notify the Laboratory when doing so, of any identified Major Nonconformity (NC) which represents a serious risk in the Laboratory's ability to conduct the required Analytical Testing menu for the Major Event (e.g., if the Laboratory will not be ready to perform a specific ATP, or any other serious procedural or logistical deviations that cannot



be resolved before the start of *Testing* for the <u>Major Event</u>), so that the *MEO* (or *DTP* delegated to undertake *Doping Control* responsibilities for the <u>Major Event</u>) can implement adequate alternatives [for example, the subcontracting of the affected <u>ATP(s)</u> to another <u>Laboratory(-ies)</u>].

# 4.3.1.2 Participate in the WADA External Quality Assessment Scheme

a) At its sole discretion, WADA may submit (blind and/or double-blind) <u>EQAS</u> samples to the <u>Laboratory</u> in preparation for or during a <u>Major Event</u>. The <u>EQAS</u> samples shall be analyzed using the same <u>ATPs</u> that will be applied in the analysis of <u>Samples</u> for the <u>Major Event</u>.

The <u>Laboratory</u> shall implement, document, and provide satisfactory Corrective Action(s) for any noncompliance(s) identified in the <u>EQAS</u> to *WADA*. Unsatisfactory responses shall result in the disqualification of the <u>Laboratory</u> from performing the <u>Analytical Testing</u> for the <u>Major Event</u>.

b) In addition, the MEO (or DTP delegated to undertake Doping Control responsibilities for the Major Event) may also request WADA to submit double-blind EQAS samples for Laboratory analysis while performing Analytical Testing during a Major Event. The request to WADA for the preparation of the double-blind EQAS samples shall be made no later than three (3) months before the start of Testing for the Major Event. The MEO shall be responsible for providing the necessary resources and covering the costs associated with the preparation, characterization, shipment and introduction of the double-blind EQAS samples into the TDP for the Major Event.

#### 4.3.1.3 Pre-Event Report

At least two (2) months prior to the start of *Testing* for the <u>Major Event</u>, *WADA* may require that the <u>Laboratory</u> provide a Pre-Event Report consisting of the following:

- a) A valid signed contract between the <u>Laboratory</u> and the responsible *MEO* (or *DTP* delegated to undertake *Doping Control* responsibilities for the <u>Major Event</u>) including a <u>TDP</u> detailing the *Sample* collection schedule, number of *Samples* (including urine, whole blood <sup>4</sup>, and DBS *Samples*, as applicable) and requests for specific analyses [e.g., Erythropoietin Receptor Agonists (ERAs)].
- b) An Organizational Chart including <u>Laboratory</u> staff and temporary scientists employed by the <u>Laboratory</u> for the <u>Major Event</u>. Supporting information such as job titles and responsibilities shall be included.



- c) A list of all senior personnel temporarily working in the <u>Laboratory</u> for the <u>Major Event</u> (including name, qualifications, and areas of contribution).
- d) A training plan with timelines for new staff, including temporary staff and invited external experts. The <u>Laboratory</u> Director shall ensure that the external personnel are adequately trained in the methods, policies, and procedures of the <u>Laboratory</u>. In addition to <u>Analytical Testing</u> requirements, emphasis should be given to the ISL Code of Ethics (see Article 8.0) and the confidentiality of the <u>Results Management</u> process. Adequate documentation of training of these temporary employees shall be maintained by the Laboratory.
- e) A list of instrumental resources and equipment.
- f) A list of <u>ATPs</u> within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation and other method details as requested by *WADA*.
- g) Summary Report(s) for any stress test conducted.

Any changes to the elements included in the <u>Laboratory</u> report shall be immediately reported to *WADA*.

# 4.3.1.4 Obtain Additional Professional Liability Insurance Coverage

<u>Laboratories</u> performing <u>Analytical Testing</u> during a <u>Major Event</u> shall verify whether their professional liability risk insurance coverage is adequate to cover the liability associated with the analysis of <u>Samples</u> and the hiring of additional temporary staff during the <u>Major Event</u>. If necessary, the <u>Laboratory</u> shall obtain complementary professional liability risk insurance coverage.

#### 4.3.1.5 "B" Confirmations

The <u>Laboratory</u> shall implement a Standard Operating Procedure (SOP) for conducting "B" <u>CPs</u>, which ensures the maintenance of the *Athlete*'s confidentiality in consideration of the increased media and public attention that might be expected during the <u>Major Event</u>. The SOP shall address the following topics:

- a) An entry and exit plan for *Athletes*, which ensures anonymity from external attention.
- b) In addition to the requirements of Article 5.3.4.1.4 e), a representative from *WADA* or *WADA*'s *Independent Observer Program* team (if requested by *WADA* or the team, respectively) shall be authorized to attend the "B" *Sample* CP.
- c) The scheduling of the "B" Sample <u>CP</u> shall be made as soon as possible, in consultation with the <u>MEO</u> (or <u>DTP</u> delegated to undertake <u>Results Management</u> responsibilities for the Major



<u>Event</u>), and considering that a postponement could significantly increase the risk of *Sample* degradation and/or inadequately delay the decision-making process in the given circumstances.

#### 4.3.1.6 Documentation and Reporting

The reporting time required for <u>Major Events</u> may be substantially less than twenty (20) days (see also Article 5.3.6.4). The agreement between the <u>Laboratory</u> and the <u>MEO</u> (or <u>DTP</u> delegated to undertake <u>Doping Control</u> responsibilities for the <u>Major Event</u>) shall clarify the reporting timelines for <u>Negative Findings</u>, <u>AAFs</u>, <u>ATFs</u> and the reporting of specific test results (e.g., GC/C/IRMS, ERAs) as well as the <u>Therapeutic Use Exemption</u> enquiry process [see Article 5.3.4.1.3 c)] and additional analysis requests (e.g., as indicated by <u>Athlete Passport Management Unit</u> (<u>APMUs</u>) – see also ISL <u>TD APMU</u>).

#### 4.3.2 Major Event Analytical Testing in "Satellite" Laboratory Facilities

In addition to the accreditation requirements for <u>Major Events</u> listed in Article 4.3.1, a <u>Laboratory</u> which is required to move or extend its operations temporarily to a new physical location ("satellite facility"), shall also meet the following requirements:

The "satellite facility" shall be established sufficiently in advance of the <u>Major Event</u> to allow for the timely transfer of <u>Laboratory</u> operations and validation of Test Methods.

# 4.3.2.1 Participate in WADA Laboratory Assessment(s)

WADA may perform an initial Assessment of the "satellite facility", at the <u>Laboratory</u>'s expense, as soon as it is available to determine whether the new facility is adequate in relation to the expected security, analytical and *Sample* handling requirements for a <u>Major Event</u>. Emphasis shall be placed on the adequacy of security considerations, the physical layout of the space to ensure that adequate separation of various parts of the <u>Laboratory</u> is maintained, and to provide a preliminary review of other key support elements and to assess compliance with the ISL and ISO/IEC 17025. For further details about WADA <u>Laboratory</u> Assessments in preparation for a Major Event refer to Article 4.3.1.1.

# 4.3.2.2 Document ISO/IEC 17025 Accreditation of the "Satellite Facility"

At least one (1) month prior to the start of the scheduled *Testing* period for the <u>Major Event</u>, the <u>Laboratory</u> shall provide documentation that the relevant AB has approved the continued accreditation or accepted the suitability of the "satellite facility". An ISL trained assessor shall participate in the AB Assessment of the "satellite facility".



#### 4.3.2.3 Obtain Professional Liability Insurance Coverage

Before *WADA* grants accreditation to the "satellite" facility for <u>Analytical Testing</u> during the <u>Major Event</u>, the <u>Laboratory</u> shall provide documentation to *WADA* that their professional liability risk insurance covers their operations in the "satellite" facility for the analysis of *Samples* during the <u>Major Event</u>.

If necessary, the <u>Laboratory</u> shall obtain additional professional liability risk insurance to cover "satellite" facility operations during the Major *Event*.

# 4.3.2.4 Obtain a Temporary and Limited WADA Accreditation Certificate

- a) The <u>Laboratory</u>'s "satellite facility" shall obtain a Temporary and Limited *WADA* Accreditation Certificate for the Major *Event*.
- b) All <u>Test Methods</u> or equipment unique to the "satellite facility" shall be validated or qualified at least one (1) month prior to the "satellite facility's" final Assessment for WADA accreditation. Any changes to <u>Test Methods</u>, equipment or other procedures in the Management System shall also be validated prior to the WADA Assessment.
- c) Based on the documentation provided, WADA reserves the right to decide regarding the accreditation of the <u>Laboratory</u> "satellite facility".
- d) If the accreditation is awarded, WADA shall issue a Temporary and Limited WADA Accreditation Certificate for the period of the <u>Major Event</u>, which includes an appropriate time before and after the duration of the <u>Major Event</u>.
- e) If the accreditation is not awarded, it is the responsibility of the MEO (or DTP delegated to undertake Doping Control responsibilities for the Major Event) to activate a contingency plan to ensure that Analytical Testing of Samples is conducted in compliance with ISL requirements during the Major Event.



# 5.0 Application of ISO/IEC 17025 to the Analysis of Samples

# 5.1 Introduction and Scope

Article 5.0 of the ISL is intended as an extension of the application of ISO/IEC 17025 to the field of *Doping Control*. Any aspect of <u>Analytical Testing</u> or management not specifically discussed in this document or in the relevant ISL *TD*s, ISL *TL*s or <u>LGs</u> shall be governed by ISO/IEC 17025 (or ISO 15189, as applicable for *ABP* Laboratories).

Article 5.0 focuses on the specific parts of the Laboratory's <u>Analytical Testing</u> processes that are critical to the quality of the Laboratory's performance as a <u>Laboratory</u> or <u>ABP Laboratory</u> and are therefore significant in the evaluation and accreditation process.

The conduct of Laboratory <u>Analytical Testing</u> is considered a process within the definitions of ISO 17000. Performance standards are defined according to a process model where the Laboratory practice is structured into three (3) main categories of processes:

- a) Resource Requirements.
- b) Process Requirements.
- c) Management Requirements.

## 5.2 Resource Requirements

#### 5.2.1 General

General Laboratory structure and resources (personnel, facilities, equipment, metrological traceability and externally provided products and services) shall be provided and managed in accordance with the requirements of ISO/IEC 17025 (or ISO 15189, as applicable for <u>ABP Laboratories</u>) and shall be compliant with the ISL and its applicable mandatory normative documents (ISL *TD*s, ISL *TL*s).

#### 5.2.2 Laboratory Personnel

As applicable, Laboratory personnel shall have knowledge of their responsibilities including the security of the Laboratory, the ISL Code of Ethics, confidentiality of <u>Analytical Testing</u> results, <u>Laboratory Chain of Custody</u> (<u>LCOC</u>) protocols, and the SOPs for the <u>ATPs</u> performed.

Specific criteria shall be met by the Laboratory Director, Laboratory Quality Management Staff, <u>Laboratory</u> Responsible(s) for R&D Activities (or qualified *Person*) and Laboratory Certifying Scientists, as outlined below.

#### 5.2.2.1 Laboratory Director

a) The Laboratory shall have a qualified *Person* appointed as the Laboratory Director, who is responsible for the Laboratory's professional, organizational, educational, operational, and administrative activities, and as such is recognized by *WADA*.



- b) The Laboratory Director plays an essential role in the Laboratory's operations and the WADA accreditation or ABP approval of the Laboratory is delivered based upon such qualification as well as on the Laboratory's operational performance.
- c) The Laboratory Director is responsible for ensuring that the Laboratory personnel are adequately trained and have the experience and skills necessary to perform their duties.
- d) The Laboratory Director is responsible for disseminating WADA correspondence (e.g., normative documents, instructions, <u>EQAS</u> or Laboratory Assessment Reports, guidance documentation) to the relevant Laboratory staff.
- e) The Laboratory Director should be appointed on a full-time basis. If the Laboratory Director has other duties or does not work full-time in the Laboratory, these shall not adversely affect the performance of the Laboratory Director's inherent activities and associated responsibilities.
- f) The Laboratory Director's qualifications shall include:
  - Doctoral degree (Ph.D. or equivalent) in one of the natural or life sciences with appropriate experience and/or training in chemical and/or biochemical analysis, preferably in the antidoping area; or
    - In the absence of a Doctoral degree, a postgraduate degree (e.g., Master degree) in one of the natural or life sciences and appropriate laboratory experience and training (e.g. a senior laboratory position for a minimum of five (5) years); or
    - In the absence of a postgraduate degree, a Bachelor degree in one of the natural or life sciences with a minimum of ten (10) years' experience in a senior laboratory position.
  - ii. Experience and competence in the analysis of chemical and biological material (preferably for the classes of substances and methods used in doping).
  - iii. Knowledge of drug metabolism and pharmacokinetics (preferably for the classes of substances and methods used in doping).
  - iv. Proficiency in English to an extent that allows adequate performance of functions as part of the international anti-doping community and in accordance with the *Code*, the ISL and its associated Laboratory normative documents [e.g., at a level similar to level B2 of the European Framework of Reference for Languages (CEFR)].



g) Any personnel changes to the position of Laboratory Director shall be communicated to WADA no later than one (1) month prior to the date scheduled for the Laboratory Director to vacate their position. A succession plan shall be forwarded to WADA. WADA reserves the right to review the credentials of such an appointment and either approve or reject the candidate in accordance with the above qualifications.

# **5.2.2.2 Laboratory Quality Management Staff**

- The Laboratory may have a single staff member appointed as the Laboratory Quality Manager or a defined Quality Management Team.
- b) The Quality Manager/Management Team shall have responsibility and authority to implement and ensure compliance with the Management System.
- c) The Quality Manager/Management Team's priority and functions shall be focused on *Quality Assurance* activities. The Quality Manager/Management Team should remain independent, as much as possible, from the routine Laboratory analytical activities.
- d) The Laboratory Quality Manager/Management Team members' qualifications shall include:
  - A higher education degree (for example, a Bachelor degree or similar) in one of the natural or life sciences with appropriate experience and/or training in chemical and/or biochemical sciences.
  - ii. Appropriate experience of two (2) years or more in laboratory procedures.
  - iii. Appropriate documented qualifications and training in laboratory Quality Management, including ISO/IEC 17025 or ISO 15189 (as applicable for <u>ABP Laboratories</u>).
  - iv. Ability to ensure compliance with the Management System and *Quality Assurance* processes.

# 5.2.2.3 <u>Laboratory</u> Responsible(s) for Research and Development Activities

The <u>Laboratory</u> shall have a qualified *Person*(s) responsible for R&D activities. The qualifications should include:

a) A doctoral degree (Ph.D. or equivalent) in one of the natural or life sciences, or a Master degree with a documented ability to oversee research projects and a minimum of ten (10) years' experience in R&D relevant to anti-doping (e.g., from the fields of forensic toxicology, analytical chemistry or biomedical sciences).



- b) Ability to plan and execute research projects, with a demonstrated capability to write scientific articles, posters, perform oral communications and share knowledge.
- c) Knowledge of Code and ISL requirements to conduct anti-doping research (refer to Code Articles 6.3 and 19, and ISL Article 5.3.8.2) as well as national and international regulations for conducting research in humans.

# **5.2.2.4 Laboratory Certifying Scientists**

- a) The Laboratory shall have enough qualified personnel to serve as Certifying Scientists to review all pertinent Analytical Data, <u>Analytical Method</u> validation results, Quality Control (QC) results, <u>LDOCs</u> and <u>Certificates of Analysis</u> (CoAs) and to attest to the validity of the Laboratory's test results.
- b) Certifying Scientists shall have a thorough understanding of the Laboratory's Management System including the review, interpretation and reporting of test results, the maintenance of LCOC, and proper implementation of Corrective Actions in response to analytical problems.
- c) The qualifications of Certifying Scientists shall include:
  - i. A higher education degree (for example, a Bachelor degree or similar) in one of the natural or life sciences with appropriate experience and/or training in chemical and/or biochemical analysis, preferably in the anti-doping area.
  - ii. Appropriate Laboratory training and experience (e.g., three (3) years or more) including theoretical knowledge and technical competence in the analysis and interpretation of results for chemical or biological materials, including the classes of substances and/or methods used in doping.
  - iii. Advanced knowledge of relevant ISL *TD*s, ISL *TL*s, <u>LGs</u>, <u>TNs</u> and other technical standards and relevant scientific literature.
  - iv. Experience in the use of relevant analytical techniques (e.g., chromatography, immunoassays, electrophoresis, flow cytometry, mass spectrometry) and the application/ interpretation of statistical tools to the evaluation of Analytical Data.
  - v. Adequate training in the Laboratory's Management System and thorough understanding of its application into Laboratory processes.



#### 5.2.3 Laboratory Facilities and Environmental Conditions

# 5.2.3.1 Laboratory Facilities

The Laboratory shall have <u>Fit-for-Purpose</u> facilities including sufficient space for administrative, *Sample* processing, *Sample* storage and analytical areas, which comply with the security requirements outlined below:

- The Laboratory shall perform a risk assessment and have a policy for the security of its facilities, equipment, and systems against unauthorized access.
- b) Two (2) main levels of access shall be defined in the Management System and evaluated in the risk assessment plan:
  - Reception Zone: An initial point of controlled access into the Laboratory beyond which unauthorized individuals shall not be permitted.
    - The Laboratory shall have a system to register visitors and authorized individuals into the Laboratory.
    - Where necessary, the Laboratory shall require authorized external individuals to carry an identification badge while in the Laboratory facilities.
  - Controlled Zones: Access to these areas shall be restricted (e.g., by using electronic access systems such as biometric and/or personal identification cards) and records of access by visitors shall be maintained.
    - Access to the Laboratory Controlled Zones shall be Laboratory restricted to staff and temporarily personnel approved/authorized (e.g., maintenance engineers, auditing teams). All other visitors to the Laboratory Controlled Zones shall be continuously escorted by Laboratory staff members. Access to the Laboratory Controlled Zones shall be defined in the Laboratory's Management System.
    - The Laboratory shall have a dedicated area within the Controlled Zone for Sample receipt and Aliquot preparation (where applicable). Access to the Laboratory's Sample receipt and Aliquot preparation area shall be restricted to authorized personnel, based on a risk assessment by the Laboratory.



 The Laboratory shall have a dedicated Sample storage area. Access to stored Samples <sup>6</sup> shall be restricted to authorized personnel, based on a risk assessment by the Laboratory.

#### 5.2.3.2 Relocation of Laboratory Facilities

In cases where a Laboratory is to relocate to a new physical space, on a permanent or temporary basis, a report containing the following information shall be provided to *WADA* no later than three (3) months prior to the relocation:

- a) Description of the circumstances for moving Laboratory operations into a new space and anticipated effect on capabilities.
- b) Relocation date(s) including date of closing of existing facility operations and date of opening of future facility operations.
- c) Expected date(s) of Assessment of the new facilities by the AB (evidence of continued accreditation and/or acceptance of suitability of the new Laboratory facilities required when made available by the AB).
- d) New Laboratory contact information and coordinates.
- e) Assessment of the effect of the Laboratory relocation on customer operations.

#### 5.2.3.3 Environmental Control

- a) The Laboratory environmental conditions shall be in accordance with the requirements of ISO/IEC 17025 (or ISO 15189, as applicable for <u>ABP Laboratories</u>). This includes records of the use of controlled chemicals and reagents, waste disposal procedures, electrical services, environmental health and safety policies, etc.
- b) The Laboratory shall have a written risk assessment-based policy to ensure appropriate electrical service (for example, by provision of an alternative power supply such as an Uninterruptible Power Supply (UPS) system and/or power generators) and environmental conditions (space, temperature, humidity, as applicable) for all Laboratory instrumentation and equipment critical to Laboratory operations, such that service is not likely to be interrupted. This policy shall ensure the integrity of refrigerated and/or frozen stored *Samples* in the event of an electrical or equipment failure.

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This refers to Samples stored in Sample collection containers (e.g., urine collection bottles, blood collection tubes) and shall not be confused with access to Aliquots, which should be accessible to analysts for the performance of ATPs).



#### 5.2.3.4 Maintain Confidentiality of Data, Information and Operations

- a) The Laboratory shall implement a procedure(s) for maintaining the confidentiality of Laboratory information and operations, for the appropriate use and protection of access badges during and outside of working hours, and for addressing risks of unauthorized access by third parties.
- b) The Laboratory should implement a clean desk policy and shall securely file any confidential or sensitive information or properly dispose of it.
- c) To minimize any attempts of fraud or counterfeit, the Laboratory should implement a procedure to ensure that discarded urine and/or whole blood/DBS Sample containers, as well as the seals and rings, are not accessible to unauthorized Persons or recovered after disposal (for example, bottles should be destroyed, or trash containers should be properly secured).

# 5.2.3.5 Control and Security of Electronic Data and Information

- a) The Laboratory shall implement all reasonable measures, based on thorough risk and vulnerability assessments (e.g., by a competent third party), to prevent and to detect unauthorized access and copying of Laboratory data and information from local and/or cloud-based computerized systems. Laboratories shall implement technical and organizational safeguards consistent with best practice and applicable governmental regulations.
- Access to Laboratory computer terminals, computers, servers, or other operating equipment shall be restricted to authorized personnel by using adequate security measures.
- c) The Laboratory shall implement a software-based data and information management system with secure and restricted access to stored electronic data by authorized personnel only, which supports and maintains proper traceability of Laboratory operations and facilitates information and data exchange capabilities between the Laboratory and ADAMS (e.g., LIMS).

[Comment to Article 5.2.3.5 c): The data and information management system may also feature process workflow management, Sample and <u>Aliquot LCOC</u>, control of stocks of <u>RMs</u>, etc.]

- d) The Laboratory shall utilize a secure data storage system that prevents unauthorized access and data loss (e.g., failed hard drive, fire, flooding).
- e) The Laboratory shall ensure that regularly backed-up copies of all relevant analytical/LIMS/instrument software files are available



(e.g., a mirrored server that guarantees the integrity of the server and the stored data).

- i. If the Laboratory is utilizing a non-cloud-based system, then at least one (1) backup copy shall be stored in a restricted and secure environment either in the Laboratory (e.g., fire and waterproof safe) or in a secure off-site location.
- ii. If the Laboratory is using a cloud-based system, the Laboratory data shall be, at a minimum, replicated in two (2) separate data centers (e.g., between two (2) different availability zones within the same region or between different regions) to minimize the possibility of data loss.
- f) The software utilized by the Laboratory shall prevent the changing of data and test results, unless there is a system to record the change with audit trail capabilities which is limited to users with authorized access. The audit trail shall record the *Person* performing the editing task, the date and time of the edit, the reason(s) for the change to the original data and allow the retention of the original data.
- g) If the Laboratory utilizes third-party computerized systems or software (e.g., a commercial LIMS), the Laboratory shall ensure the provider or operator complies with all applicable requirements of the *Code* and the ISL and shall implement and maintain technical and organizational controls necessary to safeguard Laboratory data.

## 5.2.4 Laboratory Equipment

- a) The Laboratory shall operate and maintain the equipment required for the correct performance of its <u>ATPs</u> in accordance with ISO/IEC 17025 requirements (or ISO 15189, as applicable for *ABP* Laboratories).
- b) The Laboratory shall maintain sufficient instrumental capacity to minimize the risk of operational delays in cases of malfunctions or breakdowns and meet the analytical and results reporting obligations of the ISL and its related normative documents.

# 5.2.5 Metrological Traceability – Use and Control of Chemicals, Reagents and Reference Materials

- a) Chemicals and reagents shall be <u>Fit-for-Purpose</u>, be of appropriate purity and maintained in sufficient supply such that the Laboratory's <u>Analytical Testing</u> and reporting are unlikely to be interrupted.
- b) Chemicals, reagents, and kits labelled "Research Only" or "Forensic Use Only", for example, may be utilized for the purposes of *Doping Control* provided they are demonstrated to be <u>Fit-for-Purpose</u> by the Laboratory or authorized for use by *WADA*.



c) The Laboratory shall maintain a record of reference standards utilized in <u>Analytical Testing</u> (e.g., <u>RMs</u>, stock and working solutions, calibrators, QC samples) including records of traceability to original material, evaluation, and approval prior to implementation in routine operations.

#### **5.2.5.1 Reference Materials**

- a) When available, <u>RMs</u> of substances traceable to a national standard or certified by a body of recognized status (e.g., USP, BP, Ph.Eur., WHO) or an <u>RM</u> producer accredited to ISO 17034 should be used.
  - When an RM is not a <u>Certified Reference Material</u> (<u>CRM</u>), the <u>Laboratory</u> shall verify its identity and <u>Fitness-for-Purpose</u> by comparison with published or internal <u>Laboratory</u> data and/or by chemical characterization.
- b) Where justifiable (e.g., in cases of unavailable, rare, or difficult to obtain RMs or RCs), the <u>Laboratory</u> may consider using in-house prepared RMs (in accordance with ISO Guide 80) or extending the RM expiration date if adequate documentation exists confirming that no significant deterioration has occurred or that appropriate purification or verification of <u>Fitness-for-Purpose</u> has been performed. The process to extend the expiration date of an RM, RC, or solution shall be described in the <u>Laboratory</u>'s Management System documentation.

[Comment to Article 5.2.5.1 b): Such extension of the expiration date of <u>RMs</u> is not permitted for <u>RMs</u> used in <u>Quantitative Procedures</u> applied for the confirmation of <u>Threshold Substances</u>.]

# 5.2.5.2 Reference Collections

Samples or isolates may be obtained from *in vitro* or *in vivo* sources for use as <u>RCs</u>, including:

- a) An external QC sample.
- b) An <u>Aliquot</u> or extract from a urine, whole blood or DBS sample obtained after controlled administration conducted in accordance with the requirements established in Article 8.2.1.
- c) An *in vitro* incubation with liver cells, microsomes or biological fluids.

<u>RCs</u> shall be traceable to a *Prohibited Substance* or a *Prohibited Method*, and the Analytical Data shall be sufficient to establish the identity of the Analyte.



#### 5.2.6 Externally Provided Analytical Services

 a) A <u>Laboratory</u> may request the provision of external analytical services (subcontracting of analysis) by another <u>Laboratory</u>, in consultation with the TA.

[Comment to Article 5.2.6 a): Subcontracting the analysis for the Markers of the Hematological Module of the ABP to another <u>Laboratory</u> or <u>ABP Laboratory</u> is not a recommended practice due to the limited time requirements for such analysis – see also ISL TD HEM.]

- b) The conditions that justify the request for external analysis include, for example:
  - i. A specific technology or <u>Analyte(s)</u> that is not within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation.
  - ii. An ATR imposed on the Laboratory.
  - iii. Other justifications such as a need for higher <u>Analytical Method</u> sensitivity or specific equipment or expertise, temporary workload, or technical incapacity.
  - iv. Other specific investigations, such as, without limitation, forensic examinations which need to be performed during the <u>Analytical Testing</u> process.
  - v. In exceptional circumstances, *WADA* may elect to grant specific authorization to subcontract analyses using specific <u>Test Methods</u> to an ISO/IEC 17025-accredited laboratory (for example, DNA analysis or genomic profiling).

#### In all such cases:

- vi. Sample Aliquot(s), appropriately secured to ensure Sample integrity during transportation, may be transferred for "A" Sample analyses (ITP(s) and CP(s), if needed). However, for the "B" Sample analysis, the (re)sealed (with a Tampering-evident mechanism) "B" Sample container shall be transferred.
- vii. The <u>Laboratory</u> making the request for external analysis is responsible for the maintenance of the appropriate chain of custody up to <u>Sample</u> reception by the subcontracted <u>Laboratory</u>. Such arrangements shall be clearly recorded as part of the <u>Sample</u> documentation.
- viii. The <u>Laboratory</u> making the request for external analysis shall be responsible for reporting the analytical results of the subcontracted analysis in *ADAMS*, as provided by the external provider of analytical services (subcontracted <u>Laboratory</u>), while specifying that the analysis was performed by the subcontracted <u>Laboratory</u>. However, the responsibility for the validity of the analytical results and any *Results Management* support requests lies with the subcontracted <u>Laboratory</u> that performed the relevant analysis.



- ix. When the request for external analysis is due to a <u>Laboratory</u>'s inability to apply a mandatory <u>ATP</u> (see ISL <u>TD ATP</u>), without informing the <u>TA</u> in advance of this lack of analytical capacity (temporary or not), the <u>Laboratory</u> making the request for external analysis shall bear the costs of <u>Sample</u> transportation to the subcontracted <u>Laboratory</u>(-ies) as well as any additional analytical costs.
- c) On occasions, the <u>TA</u> or *WADA* may decide to instruct a <u>Laboratory</u> to transfer *Sample*(s) to other <u>Laboratory</u>(-ies) for analysis (e.g., for <u>Test Methods</u> not within the Scope of ISO/IEC 17025 Accreditation of the <u>Laboratory</u>). In such cases, the <u>Laboratory</u> shall nevertheless ensure the *Sample* chain of custody in connection with the transfer of the *Sample*(s).

Recommendations to facilitate the implementation of externally provided analytical services are provided in the *WADA* <u>LGs</u> on "Conducting and Reporting Externally Provided Analytical Services and <u>Further Analysis</u> for *Doping Control*".

# 5.3 Process Requirements

The Laboratory shall maintain paper or electronic <u>LCOC</u> in compliance with the ISL *TD* <u>LCOC</u>.

# 5.3.1 Reception, Registration and Handling of Samples

- a) The Laboratory may receive *Samples*, which have been collected, sealed, and transported to the Laboratory in compliance with the *IST*.
- b) The transfer of the *Samples* from the courier or other *Person* to the Laboratory shall be recorded including, at a minimum:
  - i. The date.
  - ii. The time of receipt.
  - iii. The initials or (electronic) signature of the Laboratory representative receiving the *Samples* and the courier company tracking number, if available.
  - iv. This information shall be included in the <u>LCOC</u> record(s) of the *Sample(s)*.
- c) The *Sample* transport container shall be inspected, and identified irregularities recorded (see Article 5.3.2.1).
- d) Each individual Sample (including DBS Samples that are transferred to long-term storage without being analyzed) shall be inspected and irregularities, if identified, recorded (see Article 5.3.2.1). However, analyzed Samples transferred for long-term storage purposes are not subject to an individual inspection by the receiving <u>Laboratory</u> until a Sample has been selected for Further Analysis.



e) The Laboratory shall have a system to uniquely identify the *Samples* with Laboratory internal *Sample* codes, which provide *Sample* traceability to the collection document or other external chain of custody information.

#### 5.3.2 Acceptance of Samples for Analysis

Except as provided in Article 5.3.2 d), urine or blood *Samples* from a *Signatory* (or *DTP*) shall not be accepted by a <u>Laboratory</u> for the sole purpose of long-term storage or for later analysis without first being subject to an <u>ATP</u>.

The Laboratory shall analyze each *Sample* received from a *Signatory* (or *DTP*), unless the *Sample* meets any of the following conditions:

a) In cases where the <u>Laboratory</u> receives two (2) urine <u>Samples</u>, which are linked to a single <u>Sample Collection Session</u> (<u>SCS</u>) from the same <u>Athlete</u> according to the <u>Doping Control</u> Forms (DCF), the <u>Laboratory</u> shall analyze both <u>Samples</u> collected, unless otherwise instructed by the <u>TA</u>.

[Comment to Article 5.3.2 a): The <u>Laboratory</u> may combine <u>Aliquots</u> from the two (2) Samples, if necessary, in order to have sufficient volume to perform the required <u>ATP(s)</u>. In such cases, the analytical result obtained for the combined Sample shall be reported independently for each Sample collected, while clarifying in the Test Reports that the result was obtained after the analysis of the combined Samples.]

b) In cases where the <u>Laboratory</u> receives three (3) or more urine *Samples*, which are linked to a single <u>SCS</u> from the same *Athlete* according to the DCF(s), the <u>Laboratory</u> shall prioritize the analysis of the first and the subsequent collected *Sample* with the highest specific gravity (SG), as recorded in the DCF:

[Comment to Article 5.3.2 b): The <u>Laboratory</u> may conduct analyses on the additional Samples, if deemed necessary, with the agreement of the <u>TA</u>. The <u>Laboratory</u> may also combine <u>Aliquots</u> from multiple Samples, if necessary, to have sufficient volume to perform the required <u>ATP</u>(s). In such cases, the analytical result obtained for the combined Sample shall be reported independently for each Sample analyzed, while clarifying in the Test Reports that the result was obtained after the analysis of the combined Sample.

With the agreement of the <u>TA</u>, the <u>Laboratory</u> may store the additional, non-analyzed Samples for <u>Further Analysis</u>.]

- c) If a *Sample* meets documented *Sample* rejection criteria, which have been accepted by the <u>TA</u> (see also Article 5.3.2.1).
- d) DBS *Samples* collected with urine *Samples* during the same <u>SCS</u>, provided that the following process is followed:
  - i. The <u>TA</u> shall request, in advance and in writing, the <u>Laboratory</u> to place the DBS *Samples* directly into storage (without an initial analysis).
  - ii. The <u>Laboratory</u> shall report the DBS <u>Sample</u> as Not Analyzed in <u>ADAMS</u> (see Article 5.3.6.4.1) and transfer the <u>Sample</u> to storage under appropriate conditions (preferably frozen). The <u>TA</u> shall be responsible for the costs associated with the registration, initial storage and reporting of the DBS <u>Samples</u> by the Laboratory.



- iii. The <u>TA</u> shall inform the <u>Laboratory</u> in writing, within six (6) months following DBS *Sample* reception, if the *Sample* shall be put in long-term storage, or if it shall be analyzed (in which case the <u>TA</u> shall inform the <u>Laboratory</u> of the <u>Analytical Testing</u> menu to be applied). The <u>TA</u> shall be responsible for any costs associated with an extended DBS *Sample* storage beyond six (6) months (see also Table 1 in Article 5.3.7 and the ISL *TD* DBS).
- iv. If the *Sample* is analyzed following the instructions of the <u>TA</u>, the <u>Laboratory</u> shall update the *ADAMS Sample* record accordingly.
- v. If no request is received from the <u>TA</u> for the long-term storage or analysis of the DBS *Sample* within six (6) months following *Sample* reception, the <u>Laboratory</u> may discard the *Sample* or use it for secondary purposes (in accordance with Article 5.3.8).

# 5.3.2.1 Samples with Irregularities

- a) The Laboratory shall observe and document as part of the Sample's records, conditions that exist at the time of Sample reception or registration that may adversely impact on the integrity of a Sample or on the performance of <u>ATPs</u> (with the exception of the situation when a large number of Samples, which have already been analyzed, are received for long-term storage only (e.g., from a MEO see Article 5.3.7.2).
- b) Only unusual conditions shall be recorded. Irregularities to be noted by the Laboratory may include, but are not limited to:

[Comment to Article 5.3.2.1 b). The irregularities marked with an asterisk (\*) in this Article 5.3.2.1 b) may not impact on the Sample's chain of custody/unique identification or the suitability of the Sample to be analyzed with the requested test menu.]

- i. Inadequate *Sample* transportation conditions, for example:
  - Samples found to have been exposed to high temperatures (e.g., for Sample packages containing temperature data loggers) \*.
  - Issues with temperature logger, e.g., not working, not started, has stopped, or is absent (when applicable) \*.
  - Missing "A" or "B" Samples.
  - The "A" or "B" Sample is broken, empty, damaged or leaking.
- ii. Issues with Sample collection documentation and labelling, for example:
  - Mismatch between the seal on the Sample transportation package or the Sample identification number on the DCF and the Sample container's code.



- Sample cap and container codes do not match (unless this difference is traceable to the DCF).
- Sample identification numbers are different between the "A" and the "B" Sample containers of the same Sample (unless this difference is traceable to the DCF).
- Sample collection documents such as chain of custody or DCF include mistakes, are incomplete or missing.
- Athlete's identity information is provided in the Laboratory copy of the DCF or any other document transferred to the Laboratory.

#### iii. Unusual Sample conditions, for example:

- Color, odor, presence of turbidity or foam in a urine Sample \*.
- Color, signs of hemolysis in a whole-blood Sample \*.
- Freezing or clotting of a whole blood Sample.
- Unusual differences in Sample appearance (e.g., color and/or turbidity) between the "A" and the "B" Samples (see ISL TL14) \*.
- The Sample matrix is incompatible with the test menu requested (e.g., whole blood Samples to be analyzed for the Markers of the Hematological Module of the ABP collected in serum tubes instead of EDTA tubes).
- Sample volume does not meet the criteria for <u>Suitable</u> <u>Volume of Urine for Analysis</u> or is otherwise inadequate to perform the requested Analytical *Testing* menu.
- The Laboratory cannot open the Sample container (for example, for containers requiring specific opening tools).
- Tampering or adulteration of the Sample is evident.
- Sample is not properly sealed with Tampering-evident device.

# c) Analysis of Samples with Irregularities

- i. The <u>Laboratory</u> may analyze *Samples* with irregularities if the irregularity does not impact on the *Sample*'s chain of custody/unique identification or the suitability of the *Sample* to be analyzed with the requested test menu (as marked with an asterisk (\*) in Article 5.3.2.1 b) above). In any case, those irregularities shall be noted in the Test Report in *ADAMS*.
- ii. Considering the time constraints for the analysis of the Markers of the Hematological Module of the ABP, it is recommended that the Laboratory proceeds with the analysis of the whole blood Sample(s) with irregularities, unless the



- analysis is not possible or the irregularity(-ies) may adversely impact the analytical equipment (e.g., blood clots that may cause clogging of the instrument's capillary components). The Laboratory shall report the noted irregularity(-ies) in *ADAMS*.
- iii. For the irregularities of Samples (other than whole blood Samples collected for the analysis of the Markers of the Hematological Module of the ABP) that affect the Sample's chain of custody/unique identification or its analytical suitability (without an asterisk (\*) in the list of examples listed in Article 5.3.2.1 b) above), the Laboratory shall seek instructions from the TA, in writing, on the performance of Analytical Testing on the Sample (unless there is a prior agreement between the Laboratory and the TA to analyze such Samples):
  - The <u>TA</u> shall inform the <u>Laboratory</u>, in writing within seven (7) days, whether a *Sample* with the noted irregularity(-ies) shall be analyzed or not, and/or of any further measures to be taken (e.g., splitting the *Sample* in accordance with Article 5.3.2.2, forensic analysis, DNA analysis), or that the *Sample* should be stored for <u>Further Analysis</u>. The communication between the <u>Laboratory</u> and the <u>TA</u> shall be recorded as part of the *Sample*'s documentation.
  - In the absence of a timely reply (within seven (7) days) by the <u>TA</u>, the <u>Laboratory</u> should report the <u>Sample</u> as "Not Analyzed" in <u>ADAMS</u>. However, the <u>Laboratory</u> may, at its discretion, analyze the <u>Sample</u> (for example, if <u>Sample</u> substitution is suspected).
  - In cases where the <u>TA</u> (or the <u>RMA</u>, if different) or *WADA* requests the *Sample* analysis after the <u>Laboratory</u> had reported it as Not Analyzed in *ADAMS*, this shall be considered a <u>Further Analysis</u> (see Article 5.3.4.2).
- iv. Whether a *Sample* with noted irregularities is analyzed or not (following or not the receipt of <u>TA</u> instructions), the <u>Laboratory</u> shall report in *ADAMS*:
  - Any noted irregularities, and
  - The <u>TA</u> instructions authorizing or not the *Sample* analysis, or
  - A comment clarifying that the <u>TA</u> did not reply to the <u>Laboratory</u>'s request for instructions on the performance of <u>Analytical Testing</u> on a <u>Sample</u> with irregularity(-ies), and therefore the <u>Sample</u> was not analyzed (when applicable).



# 5.3.2.2 Sample Splitting Procedure

The <u>Laboratory</u> shall have a procedure to split a *Sample* as described below.

- a) In cases when either the "A" or "B" Sample is not suitable for the performance of the analyses, the <u>Laboratory</u> shall notify and seek authorization from the <u>TA</u> to split the other Sample container ("A" or "B", as applicable), provided that it is properly sealed. Conditions that may require a Sample splitting procedure include, but are not limited to:
  - i. Insufficient Sample volume.
  - ii. The Sample's integrity has been compromised.

When the integrity of the "A" or "B" *Sample* container is compromised (e.g., improper sealing or broken seal, or if the <u>Laboratory</u> mistakenly opens the "B" *Sample* instead of the "A" *Sample*) and there are no clear signs of *Sample Tampering*, the <u>Laboratory</u> shall notify and seek authorization from the <u>TA</u> to perform the <u>ITP</u>(s) on the affected *Sample* ("A" or "B", as applicable).

- If the <u>ITP(s)</u> of the affected Sample ("A" or "B", as applicable) produces a <u>PAAF(s)</u>, the <u>Laboratory</u> shall proceed to the splitting procedure (in accordance with the provisions of this Article 5.3.2.2) of the complementary, sealed Sample ("B" or "A", respectively) to conduct <u>Analytical Testing</u>, including the repeat of the <u>ITP</u> analysis and the performance of the relevant <u>CP(s)</u>.
- However, if the initial <u>ITP(s)</u> on the affected *Sample* ("A" or "B", as applicable) produces negative results, the Laboratory shall report the finding as a Negative Finding.
- If the <u>TA</u> does not authorize the performance of the analysis on the affected *Sample* ("A" or "B", as applicable), the <u>Laboratory</u> shall inform *WADA* about the <u>TA</u>'s decision in writing.
- iii. Upon visual inspection, the *Sample* is suspected of being heavily contaminated (see also ISL *TL*14).
- iv. The "A" or "B" Sample is missing.
- b) The <u>TA</u> shall inform the <u>Laboratory</u> of its decision in writing within seven (7) days of notification by the <u>Laboratory</u>:
  - If the <u>TA</u> decides to not proceed with the Sample splitting procedure, then the <u>Laboratory</u> shall report the Sample as "Not Analyzed" in ADAMS, including the noted Sample



- irregularities and the documented reasons if provided by the  $\overline{\text{TA}}$ .
- ii. If the <u>TA</u> does not respond to the <u>Laboratory</u>'s request for a Sample splitting procedure in a timely manner (within seven (7) days), the <u>Laboratory</u> shall report the Sample as "Not Analyzed" in ADAMS and include a comment clarifying that the <u>TA</u> did not reply to the <u>Laboratory</u>'s request for authorization to perform the Sample splitting procedure.
- iii. In cases where the <u>TA</u> (or *WADA*) requests the *Sample* splitting and analysis after the <u>Laboratory</u> had reported it as Not Analyzed in *ADAMS*, this shall be considered a <u>Further Analysis</u> (see Article 5.3.4.2).
- c) The process of opening and splitting the Sample and resealing of the remaining second fraction shall be conducted in accordance with Article 5.3.4.1.4 g) as conducted for a routine "B" Sample opening, including:
  - i. An attempt to notify the Athlete that the opening of the Sample to be split shall occur at a specified date and time and advise the Athlete of the opportunity to observe the process in person and/or through a representative.
    - [Comment to Article 5.3.2.2. c)-i.: If the Athlete chooses to witness the Sample splitting procedure, the Athlete takes responsibility for forfeiting their anonymity.]
  - ii. If the Athlete cannot be located, does not respond or the Athlete and/or their representative does not attend the opening and splitting of the Sample, the procedure shall be done in the presence of an <u>Independent Witness</u> that is assigned by the <u>Laboratory</u>.
  - iii. Even if present during the splitting procedure, the *Athlete* and/or their representative(s) has no right to attend the <u>ATP(s)</u> to be performed on the first split fraction, which is considered as the "A" *Sample*.
- d) The first fraction of the split *Sample* shall be considered as the "A" *Sample* and shall be used for the <u>ITP(s)</u>, unless the <u>ITP(s)</u> have already been performed (for example, on an "A" *Sample* with insufficient volume), and/or the "A" <u>CP(s)</u>, if necessary. The second fraction, considered as the "B" *Sample*, shall be resealed, and stored frozen for "B" <u>CP(s)</u>, if necessary.
- e) When the splitting procedure concerns whole blood *Samples*, which have been collected for <u>Analytical Testing</u> on the serum/plasma fraction, the sealed, intact ("A" or "B") whole blood *Sample* shall be centrifuged as soon as practical after <u>Laboratory</u> reception to obtain the serum or plasma fraction.



- The centrifuged Sample shall be stored frozen in the sealed Sample collection tube according to established protocols until the Sample opening/splitting procedure can be conducted.
- ii. The opening of the *Sample* for the splitting of the serum/plasma fraction and resealing of the second fraction shall be carried out as described above.

#### 5.3.3 Initial Storage and Sample Aliquoting for Analysis

- a) It is recommended that the <u>Laboratory</u> assign specific staff member(s) to *Sample* aliquoting, and that the process of aliquoting is performed in a specifically designated area (see Article 5.2.3.1).
- b) The <u>Aliquot</u> preparation area and procedure for the <u>ITPs</u> or <u>CPs</u> shall minimize the risk of contamination of the <u>Sample</u> or the <u>Aliquot</u>.
- c) The <u>Laboratory</u> shall use new material(s) (e.g., new test tubes) to take Aliquots for CPs.

# 5.3.3.1 Urine Samples

- a) To maintain the stability and integrity of the urine Samples, the <u>Laboratory</u> shall implement Sample storage procedures that minimize exposure to room and refrigerated temperatures as well as Sample freeze/thaw cycles.
- b) The <u>Laboratory</u> shall obtain, following proper homogenization of the <u>Sample</u>, an initial <u>Aliquot</u> containing enough <u>Sample</u> volume to perform all analytical procedures (all <u>ITPs</u> or all intended <u>CPs</u>, as applicable), by decanting the <u>Aliquot</u> from the urine <u>Sample</u> container into a secondary container (e.g., a Falcon tube). The procedure-specific <u>Aliquot(s)</u> shall then be taken from the secondary container.
- c) The <u>Laboratory</u> shall measure the pH and SG of urine <u>Samples</u> once, using one <u>Aliquot</u>, during the <u>ITP</u> and the <u>CPs</u> ("A" and "B" <u>Samples</u>). Other tests that may assist in the evaluation of adulteration or manipulation may be performed if deemed necessary by the <u>Laboratory</u>.
- d) Urine "A" Samples should be frozen after Aliquots are taken for the ITP(s) to minimize the risk of Sample microbial degradation <sup>7</sup>.
- e) Urine "B" *Samples* shall be stored frozen, as soon as possible, after reception until analysis <sup>7</sup>.

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Unless otherwise established in an ISL TD or ISL TL.



#### 5.3.3.2 Whole Blood Samples

- a) Whole blood can be collected as venous blood <sup>8</sup> or liquid capillary blood <sup>9</sup>.
- b) The <u>Laboratory</u> shall follow the mandatory requirements of relevant ISL *TD*s and ISL *TL*s for processing and storing whole blood *Samples*. Recommendations of best-practice provided in <u>LGs</u> should also be considered.
- c) The <u>Laboratory</u> shall obtain <u>Aliquot(s)</u> from the whole blood Sample container by using single-use disposable pipettes or pipettes with disposable, non-reusable tips <sup>10</sup>.
  - i. Samples for which Analytical Testing shall be performed on the whole blood or on its cellular fraction <sup>11</sup>.
    - Whole blood Samples shall be maintained refrigerated as much as practicable and shall be analyzed according to established protocols.
    - After <u>Aliquots</u> have been taken for analysis, if applicable, Samples shall be returned to refrigerated storage as soon as practicable. Whole blood <u>Samples</u> shall not be frozen.
    - If additional analyses are to be performed on the plasma fraction of the whole blood Sample, then:
      - For the analysis of the Markers of the Hematological Module of the ABP, the ABP analysis shall be completed before any other analysis is performed on the Sample.
      - For whole blood Samples collected for analyses other than the Markers of the Hematological Module of the ABP, the <u>Laboratory</u> may complete the analyses (including the <u>ITP</u>(s), and any applicable "A" and/or "B" <u>CP</u>) on the whole blood before centrifuging the Sample to obtain the plasma fraction for the additional analyses (e.g., ERAs), or

The whole blood *Sample* may be split into two (2) or more <u>Aliquots</u> to be used for the performance of analyses in whole blood (e.g., HBT) and for analyses in the plasma fraction following centrifugation (e.g., ERAs).

<sup>&</sup>lt;sup>8</sup> Whole venous blood *Samples* are collected by venipuncture.

<sup>9</sup> Whole capillary blood Samples are collected from capillary blood vessels through puncture/incision of the skin.

<sup>&</sup>lt;sup>10</sup> Except for the analysis of the *Markers* of the Hematological Module of the *ABP*.

Analysis in whole blood means that the blood *Sample* is used for analysis as such, without separation (by centrifugation or other means) into the blood cellular and liquid fractions. However, the analysis may target specifically either the blood cells [e.g., for the *Markers* of the Hematological Module of the *ABP* and homologous blood transfusions (HBT)] or the whole blood fraction (e.g., gene doping, DNA analysis).



- ii. Whole blood *Samples* for which <u>Analytical *Testing*</u> shall be performed on blood liquid fraction (serum or plasma) only (not on cellular components) <sup>12</sup>.
  - Whole blood Samples ("A" and "B" Samples), for which <u>Analytical Testing</u> shall be performed on the plasma/serum fraction only shall be centrifuged, as soon as practical, after <u>Laboratory</u> reception to obtain the plasma or serum fraction<sup>13</sup>.
  - The "A" Sample serum or plasma fraction (contained in the "A" Sample collection tube) and/or the "A" Sample serum or plasma Aliquots taken from the Sample into separate vials may be stored refrigerated for a maximum of 24 hours (but not surpassing the maximum allowed time from Sample collection established in the applicable ISL TD, ISL TL or LGs) or frozen until analysis.
  - "A" Sample serum or plasma <u>Aliquots</u> used for "A" <u>CPs</u> should be analyzed as soon as possible, but no later than twenty-four (24) hours after thawing <sup>13</sup>.
  - Following centrifugation, the "B" Sample serum or plasma fractions shall be stored frozen in the Sample collection tube according to established protocols, which minimize the contamination of the serum or plasma fractions with Red Blood Cells (RBCs) lysed upon thawing, until analysis (if applicable) <sup>13</sup>.
  - Following the conclusion by the <u>Laboratory</u> of a <u>PAAF</u> in the "A" Sample, the <u>Laboratory</u> shall transfer the corresponding "B" Sample tube to storage at -70 °C or less <sup>13</sup>.
  - "B" Sample plasma or serum <u>Aliquots</u> shall be analyzed within twenty-four (24) hours after thawing. The remaining "B" Sample shall be returned to storage at -70°C or less <sup>13</sup>.

## 5.3.3.3 Dried Blood Spot (DBS) Samples 14

DBS Sample storage and aliquoting shall follow the directives from the ISL TD DBS, or other applicable ISL TD or ISL TL. Recommendations of best practice provided in LGs should also be considered.

For obtaining serum, whole blood shall be collected in serum tubes which contain a gel separator and clotting activator. For plasma, whole blood shall be collected in tubes containing an anti-coagulant (EDTA). Analyses in serum include but are not limited to tests for human Growth Hormone (hGH), the blood *Markers* of the Endocrine and Steroidal Modules of the *ABP*, steroid esters, insulins, ERAs and Hemoglobin-based Oxygen Carriers (HBOCs). Analyses in plasma include but are not limited to tests for ERAs, steroid esters, insulins and HBOCs.

Unless otherwise specified in an ISL TD or ISL TL.

To obtain DBS Samples, capillary blood is collected directly on an absorbent Sample support and allowed to dry. DBS Samples are collected in accordance with IST Annex J - Collection, Storage and Transport of DBS Samples.



## 5.3.4 Analysis of Samples

- a) The Laboratory shall apply only validated, <u>Fit-for-Purpose ATPs</u> documented in the Laboratory's Management System (e.g., SOPs) to the analysis of *Samples*.
- b) The <u>Laboratory</u> shall analyze *Samples* collected by *ADOs* or *DTPs* using *In-Competition* (*IC*) or *Out-of-Competition* (*OOC*) <u>Analytical Testing</u> menus, as applicable, to detect the presence of *Prohibited Substances* or *Prohibited Methods* only (as defined in the *Prohibited List*).

[Comment to Article 5.3.4 b): An ADO, at its discretion, may apply anti-doping rules to an Athlete who is neither an International-Level Athlete nor a National-Level Athlete and may elect to request that Samples collected from these Athletes are analyzed for less than the full menu of Prohibited Substances and Prohibited Methods. The ADO is responsible for providing the <u>Laboratory</u> with the appropriate written justification for a reduced Testing menu.]

- c) In addition, the <u>Laboratory</u> may analyze *Samples* for the following, in which case the results of the analysis shall not be reported as an *ATF* or an *AAF*:
  - i. Non-prohibited substances or methods that are included in the *WADA Monitoring Program* (see *Code* Article 4.5).
  - ii. Non-prohibited substances for results interpretation purposes (e.g., confounding factors of the "steroid profile", non-prohibited substances that share *Metabolite*(s) or degradation products with *Prohibited Substances*, *Markers* of urine *Sample* substitution or *Tampering*), if applicable.
  - iii. Non-prohibited substances or methods (including substances prohibited IC only which are analyzed in Samples collected OOC) if requested as part of a Results Management process by the RMA, a hearing body or WADA.
  - iv. Non-prohibited substances or methods requested by the <u>TA</u> as part of its safety code, code of conduct or other regulations (see comments to *Code* Articles 5.1 and 23.2.2), or
  - v. Additional analyses for research or *Quality Assurance* in accordance with the requirements indicated in Article 5.3.8.2.

Results from these additional analyses listed in this Article 5.3.4 c) shall be reported in *ADAMS* if specifically required by *WADA* (for example, see *Code* Article 4.5 for reporting results of the *Monitoring Program*, or the ISL *TD* USM for reporting confounding factors affecting the measurement of the urinary *Markers* of the Steroidal Module of the *ABP*) or in the Comments field of *ADAMS* for TA/RMA information purposes.

d) At minimum, the <u>Laboratory</u> is required to implement all mandatory <u>ATPs</u>, as determined by *WADA* in specific ISL *TD*s or ISL *TL*s (see also ISL *TD* <u>ATP</u>). The <u>Laboratory</u> may implement additional methods for the analysis of particular *Prohibited Substances* or *Prohibited Methods*.



[Comment to Article 5.3.4 d): Mandatory <u>ATPs</u> are those <u>Analytical Methods</u> for which the <u>Laboratory</u> shall have available analytical capacity, in compliance with relevant ISL TDs or ISL TLs, and therefore should have the <u>Analytical Method</u> included in their Scope of ISO/IEC 17025 Accreditation. However, based on an IC or OOC <u>Analytical Testing</u> menu, a mandatory <u>ATP</u> is not necessarily applied to all Samples. For some Prohibited Substances or Prohibited Methods, the <u>TA</u> may decide to request their analysis in specific Samples only. These requests shall be detailed in the Sample documentation provided to the <u>Laboratory</u>. WADA shall maintain the list of mandatory <u>ATPs</u> in the ISL TD <u>ATP</u>.]

- e) <u>ATP(s)</u> included in the Laboratory's Scope of ISO/IEC 17025 Accreditation (or ISO 15189, as applicable for <u>ABP Laboratories</u>) shall be considered as <u>Fit-for-Purpose</u> and therefore the Laboratory shall not be required to provide method validation documentation or <u>EQAS</u> performance data in support of a Test Result.
  - However, if the <u>ATP</u> has not been included yet in the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation, the <u>Laboratory</u> shall validate the procedure in compliance with the ISL, the ISL *TD* VAL and/or other applicable ISL *TD*s or ISL *TL*s prior to its application to the analysis of *Samples*. In such cases, the <u>Laboratory</u> may be required to provide method validation documentation or <u>EQAS</u> performance data in support of an *AAF* (see also Article 4.1.4.2.4).
- f) <u>Laboratories</u> may, on their own initiative and prior to reporting a test result, apply additional <u>ATP</u>(s) to analyze <u>Samples</u> for Prohibited <u>Substances</u> or <u>Prohibited Methods</u> not included in the requested <u>IC</u> or <u>OOC</u> test menu, as applicable, provided that the additional work is conducted at the <u>Laboratory</u>'s expense and does not significantly affect the possibility to submit the <u>Sample</u>, as identified by the <u>TA</u> (or <u>RMA</u>, if different) or <u>WADA</u>, to <u>Further Analysis</u> (see also <u>Code</u> Article 6.4.1). Results from any such analysis shall be reported in <u>ADAMS</u> and have the same validity and <u>Consequences</u> as any other analytical result.

## 5.3.4.1 Selection and Validation of <u>Analytical Testing Procedures</u>

- a) The Laboratory shall use <u>ATPs</u> that are <u>Fit-for-Purpose</u>, as demonstrated through method validation, for the analysis of representative target <u>Analytes</u> of *Prohibited Substances* and *Prohibited Methods*.
- b) Mass spectrometry coupled to chromatographic separation (e.g., gas or liquid chromatography) is the main analytical technique of choice in anti-doping analysis. These are suitable methods for both the <u>ITP</u> and the <u>CP</u>.
- c) Affinity-binding assays (e.g., Immunoassays), electrophoretic and flow cytometric methods and other <u>Analytical Methods</u> are routinely used for detection of macromolecules in *Samples*.
  - i. Affinity-binding assays applied for the <u>ITPs</u> and <u>CPs</u> shall use affinity reagents (e.g., antibodies) recognizing different epitopes of the macromolecule analyzed, unless a <u>Fit-for-</u>



<u>Purpose</u> purification (e.g., immunopurification) or separation method (e.g., electrophoresis, chromatography) is used prior to the application of the affinity-binding assay to eliminate the potential of cross-reactivity.

- ii. In affinity-binding assays which include multiple affinity reagents (such as sandwich immunoassays), at least one (1) of the affinity reagents (either applied for capture or detection of the target <u>Analyte</u>) used in the affinity-binding assays applied for the <u>ITP</u> and <u>CP</u> shall differ. The other affinity reagent may be used in both affinity-binding assays.
- iii. For <u>Analytes</u> that are too small to have two (2) independent antigenic epitopes, two (2) different purification methods or two (2) different <u>Analytical Methods</u> shall be applied. Multiplexed affinity-binding assays, protein chips, and similar simultaneous multi-<u>Analyte</u> analytical approaches may be used.
- iv. Antibodies may also be used for specific labelling of cell components and other cellular characteristics.

[Comment to Article 5.3.4.1 c)- iv: When the purpose of the test is to identify populations of blood constituents, the detection of multiple Markers on the cells as the criteria for an AAF replaces the requirement for two (2) antibodies recognizing different antigenic epitopes. An example is the detection of surface Markers on RBCs using flow cytometry. The flow cytometer is set up to selectively recognize RBCs. The presence of more than one surface Marker on the RBCs (as determined by antibody labelling) may be used as a criterion for an AAF (alternatively to using multiple antibodies of the same Marker).]

d) Validation results for <u>ATPs</u> shall be summarized in a Validation Report and supported by the necessary documentation and Analytical Data.

For more details on <u>ATP</u> validation requirements, refer to the ISL *TD* VAL.



### 5.3.4.1.1 <u>Initial Testing Procedures</u>

- a) The objective of the <u>ITP</u> is to obtain information about the potential presence of <u>Analyte(s)</u> of *Prohibited Substance(s)* or *Prohibited Method(s)*.
- b) Results from <u>ITPs</u> that are <u>Quantitative</u> <u>Procedures</u> can be included as part of *Athlete* <u>Passports</u> (e.g., *Markers* of Hematological, Steroidal or Endocrine Modules of the *ABP*), provided that the method is <u>Fit-for-Purpose</u>.
- c) The ITPs shall fulfill the following requirements:
  - i. Be performed on <u>Aliquot(s)</u> taken from the container identified as the "A" *Sample*.

[Comment to Article 5.3.4.1.1 c)-i: In cases when the "A" Sample cannot be used for the <u>ITP</u>, the <u>ITP</u> may be performed on an <u>Aliquot</u> of the first bottle of the split "B" Sample, which is to be used as the "A" Sample (see Article 5.3.2.2).]

- ii. Be recorded, as part of the *Sample* (or *Sample* batch) record, each time it is conducted.
- iii. Include appropriate negative and positive QC samples prepared in the matrix of analysis, in accordance with its method validation results (see ISL TD VAL) 15.
- iv. The <u>Laboratory</u> shall establish criteria, based on its <u>Test Method</u> validation results, to evaluate results from an <u>ITP</u> as a <u>PAAF</u>, which would trigger confirmation analyses.
- v. Results from <u>ITPs</u> are not required to consider the associated <u>MU</u> <sup>15</sup>.
- vi. Irregularities in the <u>ITP</u> shall not invalidate an *AAF*, which is adequately established by the CP.

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<sup>&</sup>lt;sup>15</sup> Unless otherwise specified in an ISL *TD* or ISL *TL*.



### 5.3.4.1.2 Confirmation Procedures

- a) The objective of the <u>CP</u> is to obtain a result which supports or does not support the reporting of an *AAF* or *ATF*.
- b) A <u>CP</u> for a <u>Non-Threshold Substance</u> with an <u>MRL</u> may also be performed if the result estimated from the <u>ITP</u> is lower than the applicable <u>MRL</u>, as determined by the <u>Laboratory</u> in accordance with the Test Method's validation results.
- c) A <u>CP</u> for a <u>Threshold Substance</u> may also be performed if the result estimated from the <u>ITP</u> is lower than the applicable *DL*, as determined by the <u>Laboratory</u> in accordance with the <u>Test Method</u>'s validation results or as specifically required by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA* <sup>15</sup>.
- d) The <u>CPs</u> shall fulfill the following requirements:
  - i. Be recorded, as part of the *Sample* (or *Sample* batch) record, each time it is conducted.
  - ii. Have equivalent or greater <u>Selectivity</u> than the <u>ITP</u>. The <u>CP</u> should incorporate, if possible and appropriate, additional target <u>Analyte(s)</u> of the <u>Prohibited Substance(s)</u> or <u>Prohibited Method(s)</u>.
  - iii. <u>CPs</u> that are <u>Quantitative Procedures</u> shall provide accurate quantification results, including an acceptable <u>MU</u> as established in relevant ISL *TD*s or ISL *TL*s.
  - iv. Incorporate, if possible and adequate, a different *Sample* extraction protocol and/or a different analytical methodology <sup>15</sup>.
  - v. Include appropriate negative and positive QCs prepared in the matrix of analysis, in accordance with its method validation results (see ISL TD VAL) and other applicable ISL TDs or ISL TLs.



### 5.3.4.1.3 "A" Confirmation Procedure

# a) Aliquots

i. The "A" <u>CP</u> shall be performed using new <u>Aliquot(s)</u> taken from the container identified as the "A" *Sample*.

[Comment to Article 5.3.4.1.3 a)-i: In cases when the "A" Sample cannot be used, the "A" <u>CP</u> may be performed on an <u>Aliquot</u> of the split "B" Sample (see Article 5.3.2.2).]

ii. At this point, the link between the Sample external code as shown in the Sample container and the Laboratory internal Sample code shall be verified.

# b) Target Analyte(s)

- If the presence of more than one (1) *Prohibited Substance* or *Prohibited Method* is detected by the <u>ITP(s)</u>, the <u>Laboratory</u> shall confirm as many of the <u>PAAFs</u> as reasonably possible.
- ii. Such a decision should be made in consultation with the <u>TA</u> (or <u>RMA</u>, if different) and documented, and should consider the following:
  - Existence or not of an approved *Therapeutic Use Exemption*, as confirmed by the <u>TA</u> (or <u>RMA</u>, if different) in writing (see point c. below).
  - Prioritization of the identification and/or quantification of the *Prohibited* Substance(s) or *Prohibited Method(s)* that carry the longest potential period of *Ineligibility* (non-specified substances and methods).
  - Volumes available in the "A" and "B" Samples.
  - Costs of analysis (although this shall not be the main criterion for selecting which <u>PAAF</u> to confirm).
- iii. The TA (or <u>RMA</u>, if different) shall inform the <u>Laboratory</u> which <u>PAAF</u> shall be subjected to <u>CP</u> in writing and within seven (7) days of being consulted by the <u>Laboratory</u>. In the



absence of such timely information from the <u>TA</u> (or <u>RMA</u>, if different), the <u>Laboratory</u> shall proceed to confirm as many of the <u>PAAFs</u> as reasonably possible (while considering the criteria listed above) and invoice the <u>TA</u> for the costs of the analyses accordingly.

- c) Existence of approved *Therapeutic Use Exemption* 
  - i. The <u>Laboratory</u> may contact the <u>TA</u> (or <u>RMA</u>, if different), in writing, to enquire whether an approved *Therapeutic Use Exemption* exists (for further guidance, refer to the <u>LGs</u> on *Therapeutic Use Exemption* enquiries) when there is a <u>PAAF</u> for the following *Prohibited Substances*, before proceeding to the "A" CP:
    - Amfetamine.
    - Beta-blockers.
    - Beta-2 Agonists.
    - Clomifene (for female Athletes).
    - Diuretics.
    - Glucocorticoids.
    - hCG.
    - hGH (Biomarkers Test).
    - Methylphenidate.
    - Narcotics.
    - Tamoxifen (for female Athletes) and
    - Any other Prohibited Substance or Prohibited Method for which the Athlete declared Use in the DCF.

[Comment 1 to Article 5.3.4.1.3 c)-i: The selection of substances for Therapeutic Use Exemption enquiries above is based on criteria such as prevalence of medical use (upon Therapeutic Use Exemption approval) or the non-mandatory status of the <u>CP</u> for <u>Laboratories</u>.

Unless there is a prior agreement between the <u>TA</u> (or <u>RMA</u>, if different) and the <u>Laboratory</u>, contacting the <u>TA</u> (or <u>RMA</u>, if different) in such cases is not a requirement for the <u>Laboratory</u>. The <u>Laboratory</u> may proceed, at its discretion, to confirm the <u>PAAF</u> for any of these substances and report an AAF in ADAMS according to the confirmation results obtained. However, the <u>Laboratory</u> shall consult the <u>TA</u> (or <u>RMA</u>, if different) about the existence of an approved



Therapeutic Use Exemption if the <u>Laboratory</u> does not have a validated <u>CP</u> included in its Scope of ISO/IEC 17025 Accreditation and has to subcontract the confirmation analysis to another <u>Laboratory</u>, in which case the <u>TA</u> shall assume the additional costs for the shipment of the Sample to the subcontracted <u>Laboratory</u>.]

[Comment 2 to Article 5.3.4.1.3 c)-i: In principle, the enquiry by <u>Laboratories</u> regarding the existence of an approved Therapeutic Use Exemption for a Beta-2 Agonist may be applied not only to those Beta-2 Agonists which are prohibited under any condition, but also to those which are permitted up to a maximum dose by inhalation only, as specified in the Prohibited List. In such cases, the <u>Laboratory</u> may enquire about the existence of an approved Therapeutic Use Exemption for the Use of a prohibited route of administration or a dose exceeding the maximum allowed inhalation dose established in the Prohibited List.]

- ii. When possible, the <u>Laboratory</u> should provide an estimated concentration of the <u>Analyte(s)</u> from ITP.
- iii. The instruction by the <u>TA</u> (or <u>RMA</u>, if different) on whether the <u>Laboratory</u> shall proceed or not with the <u>CP</u>, based on an approved *Therapeutic Use Exemption*, shall be provided to the <u>Laboratory</u> in writing (for further guidance, refer to the <u>LGs</u> on *Therapeutic Use Exemption* enquiries).
- iv. The <u>Laboratory</u> shall follow the written instructions from the <u>TA</u> (or <u>RMA</u>, if different) on whether to proceed with the confirmation analysis.
- v. If not proceeding with the <u>CP</u> upon confirmation of the existence of an approved *Therapeutic Use Exemption* by the <u>TA</u> (or RMA, if different):
  - The <u>Laboratory</u> shall report the finding as a <u>Negative Finding</u> in *ADAMS* and include a comment in the Test Report that the <u>PAAF</u> was not confirmed upon verification by the <u>TA</u> (or <u>RMA</u>, if different) of the existence of an approved *Therapeutic Use Exemption*.
  - The <u>TA</u> (or <u>RMA</u>, if different) shall provide WADA with the associated <u>Therapeutic</u> Use <u>Exemption</u> number recorded in ADAMS.



### d) Repetition of the "A" CP

- i. The <u>Laboratory</u> may repeat the <u>CP</u> for an "A" Sample, if appropriate (e.g., QC failure, chromatographic peak interferences, inconclusive results). The reasons that may lead to a repeat <u>CP</u> shall be described in the <u>Laboratory</u>'s Management System documentation and included in the LDOC.
- ii. In that case, the previous test result(s) shall be nullified.
- iii. Each repeat "A" CP shall be recorded.
- iv. The <u>Laboratory</u> may repeat the "A" <u>CP</u> using the remaining volume of the same <u>Aliquot</u> initially taken from the "A" <u>Sample</u> container.

However, if there is not enough volume left of the initial <u>Aliquot</u>, then the <u>Laboratory</u> shall use a new <u>Aliquot(s)</u> taken from the "A" Sample container.

[Comment to Article 5.3.4.1.3 d)-iv: As explained in Article 5.3.2.2, the "A" <u>CP</u> may be performed on <u>Aliquot(s)</u> taken from a split "B" Sample if there is not enough volume left in the original "A" Sample container.]

#### e) "A" CP for Non-Threshold Substances

The "A" <u>CP</u> of a <u>Non-Threshold Substance</u> (whether subject to *MRL* or not) shall be based on the application of a <u>Qualitative Procedure</u> to establish the presence (in compliance with the ISL *TD* IDCR and/or other relevant ISL *TD* or ISL *TL*) of <u>Analyte(s)</u> of the <u>Non-Threshold Substance</u> in the "A" *Sample*.

In addition, for the "A" <u>CP</u> of a <u>Non-Threshold Substance</u> with *MRL*, the <u>Laboratory</u> shall follow the requirements established in applicable ISL *TDs* (e.g., ISL *TD MRL*) or ISL *TLs* to estimate whether the concentration of the relevant <u>Analyte(s)</u> of the <u>Non-Threshold Substance</u> is higher than the *MRL*.



# f) "A" <u>CP</u> for <u>Threshold Substances</u>

- i. The "A" <u>CP</u> of a <u>Threshold Substance</u> shall be based on the application of the following procedures:
  - A chromatographic-mass spectrometric <u>Qualitative Procedure</u> (where applicable) for the identification (in compliance with the ISL *TD* IDCR) of relevant <u>Analyte(s)</u> of the <u>Threshold Substance</u> (as established in the ISL *TD DL* or other relevant ISL *TD* or ISL *TL*), and
  - A Quantitative Procedure to determine if the property value (e.g., concentration, ratio, score, or any other measurable analytical variable, as defined by WADA) of relevant Analyte(s) of the Threshold Substance (as established in the ISL TD DL or other relevant ISL TD or ISL TL) in the "A" Sample exceeds the value of the corresponding DL, which is specified in the ISL TD DL or other applicable ISL TD (e.g. ISL TD GH, ISL TD CG/LH) or ISL TL.

By determining that the test result exceeds the *DL*, the quantitative <u>CP</u> establishes that the <u>Analyte(s)</u> of the <u>Threshold Substance</u> is present in the <u>Sample</u> at a level greater than the <u>Threshold</u>, with a statistical confidence of at least 95% (for more information, refer to the ISL *TD DL*).

The quantitative <u>CP</u> for a <u>Threshold Substance</u> shall be based on the determination of the mean of measured property values in three (3) "A" <u>Sample Aliquots</u> <sup>16</sup>. If there is not enough <u>Sample volume</u> to analyze three (3) <u>Aliquots</u>, the maximum number of <u>Aliquots</u> that can be prepared should be analyzed.

ii. For endogenous <u>Threshold Substances</u>, <u>Markers</u> of the <u>ABP</u>, or any other <u>Prohibited</u> <u>Substance</u> that may be produced endogenously, the "A" <u>CP</u> may also be based

<sup>&</sup>lt;sup>16</sup> Unless otherwise specified in an ISL *TD* or ISL *TL*.



on the application of any <u>Fit-for-Purpose Test Method</u> that establishes the origin (exogenous or endogenous) of <u>Analyte(s)</u> of the <u>Threshold Substance</u> in accordance with a relevant ISL *TD* (e.g., ISL *TD* IRMS, ISL *TD* NA) or ISL *TL*.

## 5.3.4.1.4 "B" Confirmation Procedure

## a) <u>Laboratory</u>

The "B" <u>CP</u> shall be performed in the same <u>Laboratory</u> as the "A" <u>CP</u>, unless there are exceptional circumstances, as determined by *WADA* and with *WADA*'s prior written approval, which prevent the "B" <u>CP</u> from being performed in the same <u>Laboratory</u>.

### b) Notification of "B" CP

- The <u>Laboratory</u> shall only perform the "B" <u>CP</u> upon written request from the relevant *ADO* with *Results Management* responsibilities.
- ii. The responsible <u>RMA</u> should, if possible, inform the <u>Laboratory</u> in writing, within thirty (30) days following the reporting of an "A" <u>Sample AAF</u> by the <u>Laboratory</u>, whether the "B" CP is to be conducted.

[Comment to Article 5.3.4.1.4 b)-ii: The "B" <u>CP</u> should be conducted as promptly as possible, in particular for the confirmation of <u>Analytes</u> that may degrade during Sample storage (e.g., ERAs, Markers of HBT).]

iii. If the <u>Laboratory</u> does not receive instructions from the responsible <u>RMA</u> on the conduct of the "B" <u>CP</u> or the transfer of the "B" <u>Sample</u> to long-term storage within the minimum applicable <u>Sample</u> storage time (see Article 5.3.7.1 and Table 1), then the <u>Laboratory</u> shall transfer the "A" and "B" <u>Samples</u> into long-term storage and inform <u>WADA</u>. The <u>ADO</u> shall bear the costs for the extended <u>Sample</u> storage.

#### c) Timing of "B" CP

It is recommended that, if requested, the "B"
 <u>CP</u> is performed as soon as possible (e.g.,
 within thirty (30) days, if possible) of reporting
 the AAF for the "A" Sample.



The timing of the "B" CP may be strictly fixed within a very short period and without any possible postponement if circumstances justify it. This can notably and without limitation be the case when a postponement of the "B" Sample analysis could significantly increase the risk of Sample degradation and/or inadequately delay the decisionmaking process in the given circumstances (e.g., and without limitation, during or in view of a Major Event requiring rapid completion of the Sample analysis). In such cases, if the Athlete or the Athlete's representative cannot be present, the procedure shall then be conducted in the presence of an Independent Witness.

- ii. The responsible <u>RMA</u> shall instruct the Laboratory to proceed with the "B" <u>CP</u>, in the presence of an <u>Independent Witness</u>, if:
  - The Athlete declines to be present in person and/or through a representative, or
  - The Athlete will not attend (in person and/or through a representative) once a date and time for the analysis have been fixed, or
  - The Athlete or the Athlete's representative claims not to be available on the date or at the time of the opening of the "B" Sample, despite reasonable attempts to find an alternative date and time convenient both to the Athlete and to the Laboratory.

# d) Independent Witness

- The <u>Laboratory</u>, in consultation with the *ADO* responsible, shall appoint an <u>Independent Witness</u> to verify that:
- The "B" Sample container shows no signs of Tampering, and
- The identifying "B" Sample container code matches the relevant Sample collection documentation.
- ii. An <u>Independent Witness</u> may be appointed even if the *Athlete* has indicated that they will be present and/or represented.



- e) Non-<u>Laboratory</u> *Persons* that shall be authorized to attend the "B" <u>CP</u> process:
  - i. The *Athlete* and/or representative(s) of the *Athlete*.
    - The Athlete and a maximum of two (2) representatives, and/or the <u>Independent Witness</u>, have the right to attend the "B" Sample opening, aliquoting and resealing procedures.
    - Upon request and subject to the approval by the Laboratory Director (or designated Person), the Athlete and/or one (1) representative may also have reasonable opportunity to observe other steps of the "B" CP process, as long as they strictly follow the instructions of the Laboratory and do not interfere with the analytical process and the Laboratory's routine operations, including respecting Laboratory's operational hours as well as the Laboratory's safety and security requirements. Any questions on the analytical process shall be directed exclusively at the Laboratory Director (or designated Person).

The observation by the *Athlete* and/or their representative of the "B" <u>CP</u> process shall not involve the interpretation of the Analytical Data, which is a sole responsibility of the <u>Laboratory</u>. The *Athlete* shall receive all necessary Analytical Data, and their interpretation and conclusions made by the <u>Laboratory</u>, in the <u>LDOC</u> (upon request through the <u>RMA</u> or *WADA*).

- ii. An Independent Witness.
- iii. A translator (if applicable).
- iv. A representative of the responsible *ADO* (if requested by the *ADO*).

The <u>Laboratory</u> Director may limit the number of individuals in Controlled Zones of the <u>Laboratory</u> based on safety or security considerations.



- f) Non-<u>Laboratory</u> Person conduct during the "B" <u>CP</u> process:
  - Persons attending shall not interfere with the "B" Sample opening or the "B" <u>CP</u> process in any way at any time and shall strictly follow the instructions of the <u>Laboratory</u>.
  - ii. The <u>Laboratory</u> may have any *Person* removed, including the *Athlete* or *Athlete*'s representative(s), if they are not following the <u>Laboratory</u> instructions, disturbing, or interfering with the "B" *Sample* opening or the <u>Analytical Testing</u> process.
  - iii. Any behavior resulting in removal shall be reported to the responsible *ADO*.
  - iv. Interference may further be constitutive of an Anti-doping Rule Violation in accordance with Code Article 2.5, "Tampering, or Attempted Tampering with any part of Doping Control by an Athlete or other Person".
- g) Opening, Aliquoting and Resealing of "B" Sample
  - i. The "B" <u>CP(s)</u> shall be performed using <u>Aliquot(s)</u> taken from the container defined as the "B" *Sample*.
    - [Comment to Article 5.3.4.1.4 g)-i: In cases when the "B" Sample cannot be used for <u>Analytical Testing</u>, the unopened, sealed "A" Sample may be split (see Article 5.3.2.2). The "B" <u>CP(s)</u>, if needed, may be performed on an <u>Aliquot</u> taken from the split, resealed "A" Sample fraction that had been designated as the "B" Sample.]
  - ii. The Athlete and/or their representative(s) or the <u>Independent Witness</u> shall verify that the "B" Sample container:
    - Is properly sealed, and
    - Shows no signs of Tampering, and
    - The "B" Sample container code matches the relevant Sample collection documentation.
  - iii. At a minimum, the <u>Laboratory</u> Director or representative and the *Athlete* or their representative(s) and/or the <u>Independent</u> <u>Witness</u> shall sign the <u>Laboratory</u> documentation attesting that the "B" Sample



container was properly sealed and showed no signs of *Tampering*, and that the identifying code matches the *Sample* documentation.

- If the Athlete. and/or their representative(s), or the Independent Witness refuses to sign the Laboratory documentation because they consider that the "B" Sample container was not properly sealed and/or showed signs of Tampering, or if the identifying numbers did not match those on the Sample collection documentation, the Laboratory shall not proceed with the "B" CP process and shall inform the responsible ADO immediately to obtain instructions. In such cases, the "B" CP may have to be rescheduled.
- If the Athlete and/or their representative(s), or the Independent Witness refuses to sign the Laboratory documentation for any other reason, the Laboratory shall proceed with the "B" CP process. In addition, the Laboratory shall inform the ADO responsible immediately. The reason(s) for the refusal shall be documented and included as a comment in the Test Report in ADAMS.
- iv. The <u>Laboratory</u> shall ensure that the "B" <u>Sample</u> container is opened and <u>Aliquots</u> for the "B" <u>CP(s)</u> are taken in the presence of the <u>Athlete</u> or their representative(s) or the Independent Witness.
- v. The <u>Laboratory</u> shall also ensure that, after opening and taking <u>Aliquots</u> for the "B" <u>CP(s)</u>, the "B" <u>Sample</u> is properly resealed in the presence of the <u>Athlete</u> and/or their representative(s) or the <u>Independent Witness</u>, who should be offered the opportunity to select the resealing equipment for the "B" <u>Sample</u> container from several identical/sealed items, if available.
- vi. At a minimum, the <u>Laboratory</u> Director or representative and the *Athlete* and/or their representative(s) and/or the <u>Independent</u> Witness shall also sign the <u>Laboratory</u>



documentation attesting that they have witnessed the "B" *Sample* opening and aliquoting procedures and that the "B" *Sample* was properly resealed.

vii. If the Athlete and/or their representative or the Independent Witness refuse to sign this part of the Laboratory documentation, the reason(s) for the refusal shall be documented and included as a comment in the Test Report in ADAMS. In either case, the Laboratory shall continue with the "B" CP process.

# h) Target Analyte(s)

If more than one (1) *Prohibited Substance* or *Prohibited Method* has been confirmed in the "A" <u>CP(s)</u>, the <u>Laboratory</u> shall confirm as many of the *AAFs* as possible given the "B" *Sample* volume available.

- The order of priority of the confirmation(s) shall be determined to prioritize the analysis of the Prohibited Substance(s) or Prohibited Method(s) with the longest potential period of Ineligibility.
- ii. The decision should be made in consultation with the *ADO* responsible and documented in writing.

#### i) Repetition of the "B" CP(s)

i. The <u>Laboratory</u> may repeat the "B" <u>CP</u>, if appropriate (e.g., QC failure, chromatographic peak interferences, inconclusive "B" confirmation results). When the <u>CP</u> is repeated, the reasons that led to the repeat <u>CP</u> shall be described in the <u>Laboratory</u>'s Management System documentation and included in the <u>LDOC</u>.

In that case, the previous test result shall be nullified.

ii. The <u>Laboratory</u> may repeat the "B" <u>CP</u> using the remaining volume of the same <u>Aliquot</u> initially taken from the "B" <u>Sample</u> container.

However, if there is not enough volume left of the initial <u>Aliquot</u>, then the <u>Laboratory</u> shall use



a new <u>Aliquot(s)</u> taken from the resealed "B" Sample container. In such cases, the reopening, aliquoting and resealing of the B" Sample container shall be performed in the presence of the <u>Athlete</u> and/or <u>Athlete</u>'s representative(s) and/or <u>Independent Witness</u>, as per the procedure described above.

- iii. Each Aliquot used shall be documented.
- i) "B" CP with Negative Results
  - i. If the final "B" confirmation results are negative, the <u>Analytical Testing</u> result shall be considered a Negative Finding.

[Comment to Article 5.3.4.1.4 j)-i: Target Analytes [e.g., parent compound, Metabolite(s), Marker(s)] used to conclude the presence of a given Prohibited Substance or Use of a Prohibited Method may differ between the "A" and "B" CPs, as long as the Analyte(s) targeted allows the unequivocal and conclusive identification of the Prohibited Substance or Prohibited Method in the "B" Sample to conclude an AAF.

A failure of a "B" <u>CP</u> to confirm the "A" Sample AAF does not necessarily mean that the "A" Sample result is incorrect. A discrepancy between the "A" and "B" Sample results may occur, for example, in cases of substance degradation during "B" Sample storage.]

- ii. The <u>Laboratory</u> shall notify the <u>RMA</u> and *WADA* immediately.
- iii. The <u>Laboratory</u> shall conduct an internal investigation of the cause(s) of the discrepancy between the "A" and "B" <u>Sample</u> results and should report its outcomes to the <u>RMA</u> and <u>WADA</u> within seven (7) days.
- k) "B" <u>CP</u> for <u>Non-Threshold Substances</u> and Exogenous <u>Threshold Substances</u>
  - i. The "B" <u>CP</u> for a <u>Non-Threshold Substance</u> (including those with *MRL* as specified in the ISL <u>TD MRL</u>) or an exogenous <u>Threshold Substance</u> includes a <u>Qualitative Procedure</u>, which shall only confirm the presence (in compliance with the ISL <u>TD IDCR</u> or other applicable ISL <u>TD or ISL TL</u>) of <u>Analyte(s)</u> of the <u>Prohibited Substance</u> reported in the "A" <u>Sample</u> for the <u>AAF</u> to be valid.



- ii. Quantification or estimation of concentrations of the <u>Analyte(s)</u> of the <u>Prohibited Substance</u> in the "B" <u>Sample</u> is not necessary.
- I) "B" <u>CP</u> for Endogenous <u>Threshold Substances</u>
  For an endogenous <u>Threshold Substance</u>, the "B" CP shall be based on:
  - i. A <u>Quantitative Procedure</u> to determine if the property value (e.g., concentration, ratio, score, or any other measurable analytical variable, as defined by *WADA*) of relevant <u>Analyte(s)</u> of the <u>Threshold Substance</u> (as established in relevant ISL *TD* or ISL *TL*) in the "B" *Sample* exceeds the value of the applicable *DL* <sup>17</sup>, which is specified in a relevant ISL *TD* (e.g., ISL *TD* GH, ISL *TD* CG/LH) or ISL *TL*.
    - Comparison of the measured value of the "B" Sample to the measured value of the "A" Sample is not necessary to establish the "B" Sample confirmation.
    - The quantitative "B" <u>CP</u> for an endogenous <u>Threshold Substance</u> shall be based on the determination of the mean of measured property values (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*) of three (3) "B" Sample Aliquots 18.
    - If there is not enough Sample volume to analyze three (3) Aliquots, the maximum number of Aliquots that can be prepared should be analyzed, and
  - ii. A chromatographic-mass spectrometric Qualitative Procedure (if applicable) for the identification (in compliance with the ISL TD IDCR) of relevant Analyte(s) of the Threshold Substance (as established in relevant ISL TD or ISL TL).
  - iii. For endogenous <u>Threshold Substances</u>, Markers of the *ABP*, or any other *Prohibited Substance* that may be produced endogenously, the "B" CP may also be based

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<sup>17</sup> Thresholds for endogenous Threshold Substances have been established based on reference population statistics and already incorporate a guard band that reflects the uncertainty of the measurements. Therefore, the Threshold constitutes the DL. The assay MU shall not be added to the test result for reporting an AAF or an ATF.

<sup>&</sup>lt;sup>18</sup> Unless otherwise specified in an ISL *TD* or ISL *TL*.



on the application of any <u>Fit-for-Purpose Test Method</u> that establishes the origin (exogenous or endogenous) of <u>Analyte(s)</u> of the <u>Threshold Substance</u> in accordance with a relevant ISL *TD* (e.g., ISL *TD* IRMS, ISL *TD* NA) or ISL *TL*.

#### 5.3.4.2 Further Analysis

<u>Further Analysis</u> of a stored *Sample* shall, as a matter of principle, be aimed at detecting *Prohibited Substances* or *Prohibited Methods* included in the *Prohibited List* in force at the time of the collection of the *Sample*.

### a) Requests for Further Analysis

- Requests for <u>Further Analysis</u> shall be made by the <u>TA</u> or <u>RMA</u> (if different) in writing and shall be recorded as part of the <u>Sample</u>'s documentation.
- ii. WADA may also direct the additional analysis (see Code Article 6.5) or <u>Further Analysis</u> (see Code Article 6.6) of Samples at its own expense. In cases where WADA takes physical possession of a Sample(s), it shall notify the <u>TA</u> (see Code Article 6.8).
- iii. Any other ADO with jurisdiction that wishes to conduct <u>Further Analysis</u> on a stored Sample may do so upon request with the permission of the <u>TA</u> or WADA and shall be responsible for any follow-up Results Management.

#### b) Selection of Samples for Further Analysis

i. <u>Further Analysis</u> on a *Sample* before the reporting of analytical results

There is no limitation on a <u>Laboratory</u>'s authority to conduct repeat or confirmation analysis, or to analyze a *Sample* with additional <u>Analytical Methods</u>, or to perform any other type of additional analysis on an "A" *Sample* or "B" *Sample* prior to reporting an analytical result on that *Sample*.

However, if a <u>Laboratory</u> is to conduct additional analysis on an "A" *Sample* or "B" *Sample* after a final report (see Article 5.3.6.4 for partial submission of results) for that *Sample* has been issued (for example: additional *Sample* analysis to detect ERAs, or GC/C/IRMS analysis, or analysis in connection with the *ABP* or additional analysis on a stored *Sample*), this shall be considered as <u>Further Analysis</u>. Therefore, the <u>Laboratory</u> shall get approval from the <u>TA</u> or <u>RMA</u> (if different) or *WADA*, as applicable.



ii. Further Analysis of a Sample Reported as a Negative Finding

There is no limitation for the conduct of <u>Further Analysis</u> on a *Sample* that has been reported as a <u>Negative Finding</u>.

- iii. Further Analysis of a Sample Reported as AAF
  - <u>Further Analysis</u> may be performed on a stored Sample reported as an AAF if the responsible ADO has not notified the Athlete that the Sample is the basis for a Code Article 2.1 Anti-doping Rule Violation charge, or after that case has been finally resolved. Any Prohibited Substance or Prohibited Method detected during the <u>Further Analysis</u>, which was prohibited at the time of Sample collection, shall be reported.
  - Pursuant to Code Article 6.5, <u>Further Analysis</u> may not be applied on a Sample reported as an AAF after the responsible ADO has charged the Athlete with a Code Article 2.1 Anti-doping Rule Violation, and before the case is finally resolved, without the consent of the Athlete or approval from a hearing body.
  - However, in connection with its monitoring of <u>Laboratory</u> performance, *WADA* may direct <u>Further Analysis</u> of a <u>Sample</u> which has resulted in a <u>Code</u> Article 2.1 Anti-doping Rule Violation charge before the case has been finally resolved and without consent of the <u>Athlete</u> or approval from a hearing body provided that the analytical result from that <u>Further Analysis</u> cannot be used against the <u>Athlete</u> (for example, reanalysis of <u>Samples</u> which a <u>Laboratory</u> has reported as <u>AAF</u>s when the <u>Laboratory</u> has been determined to have reported False <u>AAF</u>(s) using the same <u>Analytical Method</u>) see also Article 6.1.3.
- iv. Further Analysis of a Sample Reported as ATF

<u>Further Analysis</u> may be performed on a *Sample* reported as an *ATF* except if, following additional investigations, the finding has been progressed into an *AAF* and the *Athlete* has been charged with a *Code* Article 2.1 Anti-doping Rule Violation (for example, findings for some *Prohibited Substances* that may be used as growth promoters for livestock in some countries, which are initially reported as *ATF* and later progressed as *AAF* after further investigations establish that the result cannot be explained by the consumption of contaminated meat).

v. Previously acquired <a href="ITP">ITP</a> data may also be re-evaluated for the presence of *Prohibited Substances* or *Prohibited Methods*, at the initiative of the <a href="IA">IA</a> (or the <a href="RMA">RMA</a>, if different), <a href="WADA">WADA</a> or the <a href="Laboratory">Laboratory</a> at its own discretion. The results of such reevaluation, if suspicious, shall be communicated to the <a href="IA">IA</a>, the



<u>RMA</u> (if different) or *WADA*, as applicable, and may lead to Further Analysis.

## c) Selection of <u>Laboratory</u> for <u>Further Analysis</u>

<u>Further Analysis</u> may be performed by the same <u>Laboratory</u> that performed the original <u>Analytical Testing</u>, or by a different <u>Laboratory</u> or other *WADA*-approved laboratory, at the direction of the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*.

# d) ATPs for Further Analysis

- i. <u>Further Analysis</u> of stored *Samples* shall be performed in compliance with the ISL, ISL *TD*s and ISL *TL*s in effect at the time the Further Analysis is performed.
- ii. <u>Further Analysis</u> of stored Samples includes, notably, but without limitation, the application of newly developed or improved <u>ATP(s)</u> and/or the analysis of new target <u>Analyte(s)</u> of <u>Prohibited Substance(s)</u> or <u>Prohibited Method(s)</u> [e.g., <u>Metabolite(s)</u> and/or <u>Marker(s)</u>], which were not known or not included in the initial Analytical <u>Testing</u> of the <u>Sample</u>.
- iii. Depending on the circumstances, and to ensure an effective and targeted use of the available *Sample* volume, priorities may be set, and/or the scope of the <u>Further Analysis</u> restricted to specific analyses [in particular, but without limitation, to analyses based on new or improved <u>ATP(s)</u>].

#### e) Further Analysis of Stored Samples

- i. Use of the "A" Sample
  - The <u>TA</u> or <u>RMA</u> (if different) or *WADA* may instruct the <u>Laboratory</u> to use the "A" *Sample* for:
    - Both the <u>ITP</u>s(s) and the "A" <u>CP</u>(s); or
    - Only the <u>ITP(s)</u>; or
    - Not to use the "A" Sample for Further Analysis at all.
  - If the <u>Laboratory</u> has been instructed to perform only <u>ITP(s)</u> on the "A" *Sample*, any suspicious analytical result obtained from the "A" *Sample* shall be considered as a <u>PAAF</u>, irrespective of the <u>ATP</u> applied, and shall be confirmed using the split "B" *Sample* (see below).

#### ii. Use of the split "B" Sample

 When the "A" Sample is used only for the <u>ITP(s)</u> or is not used at all during <u>Further Analysis</u>, the "B" Sample shall be split and used for Further Analysis.



- The "B" Sample shall be split into two fractions, in accordance with Article 5.3.2.2.
- The Athlete and/or a representative of the Athlete shall be invited to witness the splitting procedure. At a minimum, the splitting process shall be conducted in the presence of an appointed <u>Independent Witness</u>.
- Even if present during the splitting procedure, the Athlete and/or their representative has no right to attend the <u>ATP(s)</u> to be performed on the first split fraction of the "B" Sample, which shall be deemed as the "A" Sample.
- In the event an AAF is notified based on the results of a <u>CP</u> of the first fraction of the "B" Sample, the second split fraction of the "B" Sample shall be deemed as the "B" Sample. If applicable, a "B" confirmation shall be decided and performed in accordance with Article 5.3.4.1.4.

[Comment to Article 5.3.4.2 e)-ii: Since the first split fraction of the "B" Sample is considered as an "A" Sample, analysis of <u>Aliquots</u> taken from this Sample may include the performance of <u>ITP(s)</u> and "A" <u>CP(s)</u> or "A" <u>CP(s)</u> only (if the <u>ITP(s)</u> was already performed using the "A" Sample).]

# 5.3.4.3 Alternative Biological Matrices

Any negative <u>Analytical Testing</u> results obtained from hair, nails, oral fluid, or other biological material shall not be used to counter *AAFs* or *ATFs* from urine or blood (including whole blood, plasma, serum or DBS).

#### 5.3.5 Assuring the Validity of Analytical Results

- a) The Laboratory shall monitor its analytical performance and the validity of test results by operating Quality Assurance schemes, which are appropriate to the type and frequency of <u>Analytical Testing</u> performed by the Laboratory.
  - i. The *Quality Assurance* schemes shall be recorded in such a way that trends are detectable and, where practicable, statistical techniques shall be applied to review the results.
  - All Quality Assurance procedures shall be documented in the Laboratory Management System.
- b) The range of Quality Assurance activities include, but are not limited to:
  - i. Use and monitoring appropriate QC samples.
    - Appropriate positive (PQC) and negative (NQC) samples, prepared in the matrix of analysis, shall be included, and analyzed in all <u>ITPs</u> and CPs <sup>19</sup>.

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<sup>&</sup>lt;sup>19</sup> Unless otherwise specified in an ISL *TD* or ISL *TL*.



- Appropriate internal standard(s) shall be used for chromatographic methods.
- QC-charts with appropriate warning and action limits shall be used to monitor method performance and inter-batch variability (where applicable).
- ii. Implementation of an Internal Quality Assessment Scheme
  - The <u>Laboratory</u> shall establish a functional and robust risk assessment-based iQAS program, which challenges the entire scope of the <u>Analytical Testing</u> process (i.e., from <u>Sample</u> accessioning through results evaluation).
  - The <u>Laboratory</u> shall implement a procedure that prevents the submission of iQAS results into *ADAMS*.
  - The iQAS plan shall include and evaluate as many <u>Laboratory</u> procedures as possible, including:
    - The submission of a sufficient number of iQAS samples on a regular basis (e.g., monthly); and
    - Incorporate as many categories of Prohibited Substances and Prohibited Methods as possible.
  - The <u>Laboratory</u> shall have a dedicated Management System document for the iQAS program, which incorporates detailed descriptions for:
    - The planning, preparation, introduction (blind and/or double-blind) of the iQAS samples; and
    - The management of the iQAS results (reviewing and follow-up of nonconformities).
- iii. Mandatory participation in the WADA EQAS (see ISL TD EQAS).
- iv. Implementation of Internal Audit Program
  - IAs shall be conducted in accordance with the requirements of ISO/IEC 17025 (or ISO 15189, as applicable for <u>ABP Laboratories</u>) and shall have a dedicated Management System document incorporating a detailed procedure for:
    - The planning and performance of the audits.
    - The training, selection and authorization of auditors including the specification of their auditing activities; and
    - The management of the internal audit conclusions (reviewing and follow-up of nonconformities).
  - For the conduct of IAs, Laboratories may have their procedures and systems audited by:



- External auditors selected by the Laboratory (e.g., other Laboratory Directors or other external personnel performing the audit at the request of the Laboratory).
- Qualified Laboratory staff members, provided that they do not audit their own area of operations.
- Qualified members of the Laboratory's host organization (e.g., university, institute, company).

## 5.3.6 Management and Reporting of Analytical Results

#### 5.3.6.1 Review of Results

- a) The <u>Laboratory</u> shall conduct a minimum of two (2) independent reviews of all <u>ITP</u> raw data and results. The review process shall be recorded.
- b) A minimum of two (2) Certifying Scientists shall conduct an independent review of all *AAFs* and *ATFs* before a test result is reported. Evidence of the review and approval of the analytical run/batch shall be recorded.
- c) Requests for Second Opinions

The <u>Laboratory</u> may request a second opinion from other <u>Laboratory</u> experts (for example, experts from *WADA* Technical Working Groups) before reporting an *AAF* or *ATF*.

- i. Such requests for second opinions may be required by specific ISL TDs (e.g., ISL TD EPO) or ISL TLs, required by WADA from certain <u>Laboratory</u>(-ies) for all or for specific <u>ATP</u>(s) under certain conditions (e.g., following the recent obtaining of WADA accreditation or after a period of <u>Suspension</u> or <u>ATR</u>), or requested at the discretion of the <u>Laboratory</u> (e.g., for first detection of novel <u>Analytes</u> or for findings which are difficult to interpret).
- ii. Requests for second opinions are not permitted for analytical results associated with the blind or educational <u>EQAS</u>, unless approved or instructed by *WADA*.
- iii. If not a member of the relevant *WADA* Technical Working Group, the second opinion provider shall be at least a Certifying Scientist for the <u>ATP</u> and shall be approved to provide second opinions by their <u>Laboratory</u> Director.
- iv. The request for second opinions shall be made in writing and the second opinion(s) received shall be recorded as part of the *Sample*'s documentation.



- v. Any transfer of data and information necessary for the second opinion shall be made securely and respect the confidentiality of the Analytical Data and any other information.
- vi. The <u>Laboratory</u> that performed the analysis is responsible for the result and for issuing the final Test Report <sup>20</sup>.
- d) Laboratory Review of Results before Reporting AAFs and ATFs

At a minimum, the review of AAFs and ATFs shall include:

- i. Documentation linking the *Sample* external code (as specified in the DCF) to the <u>Laboratory</u> internal *Sample* code.
- ii. LCOC documentation.
- iii. ITP and CP Analytical Data and calculations.
- iv. QC data.
- v. Completeness of technical and analytical documentation supporting the reported findings.
- vi. Assessment of the existence of significant data or information that would cast doubt on or refute the <u>Laboratory</u> findings.

[Comment to Article 5.3.6.1 d)-vi: The <u>Laboratory</u> should consider the prevailing scientific knowledge regarding, for example, the possibility of Sample or <u>Aliquot</u> contamination, the presence of analytical artifacts, the possible natural occurrence of the <u>Analyte</u> at low concentrations, microbial or chemical degradation, the detection of Metabolites which may be common to non-prohibited substances or the absence of characteristic phase-I or phase-II Metabolites.]

vii. When the <u>CP</u> result(s) are rejected as *AAF* or *ATF* based on the results review, the reason(s) for the rejection shall be recorded.

#### 5.3.6.2 Traceability of Results and Documentation

The Laboratory shall have documented procedures to ensure that it maintains a record related to each *Sample* analyzed.

- Each step of the <u>Analytical Testing</u> shall be traceable to the staff member who performed that step.
- b) Critical consumables (e.g., reagents, <u>RMs</u>) used in the relevant steps of the <u>Analytical *Testing*</u> shall be recorded for traceability.
- c) Significant deviation from a written Management System procedure shall be recorded.

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<sup>&</sup>lt;sup>20</sup> Unless otherwise specified in an ISL *TD*, ISL *TL* or <u>LGs</u>.



- d) Where instrumental analyses are conducted, the operating parameters for each run shall be included as part of the record.
- e) Requests for information by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA* to a Laboratory shall be made in writing.
- f) LDOCs and CoAs shall be compliant with the ISL TD LDOC.
  - In the case of an AAF or ATF, the record shall include the data necessary to support the conclusions reported as set forth in and limited by the ISL TD LDOC.
  - ii. <u>Laboratories</u> are not required to produce an <u>LDOC</u> for a <u>Negative Finding</u>, unless requested by a hearing body or disciplinary panel as part of a *Results Management* process or Laboratory Disciplinary Proceedings.

# 5.3.6.3 Confidentiality of the Analytical Data and Athlete's Identity

- a) Confidentiality of the Analytical Data and Athlete's identity shall be observed by all parties (e.g., <u>Laboratory</u>, <u>TA</u>, <u>RMA</u>, <u>DTP</u>, WADA, other parties informed including, where different, National Federations, International Federations, <u>National Olympic</u> Committees (NOCs).
- b) The <u>Laboratory</u> shall not make any attempt to identify an *Athlete* that has provided a *Sample*.
- c) Information sent by a facsimile is acceptable provided that the correct facsimile number is verified prior to transmission and the receipt is verified after the facsimile has been transmitted.
- d) Encrypted e-mails or documents shall be used for reporting or discussion of *AAFs* or *ATFs* if the *Athlete* can be identified or if any information regarding the identity of the *Athlete* is included.
- e) Whenever the <u>Laboratory</u> handles Analytical Data or information where an *Athlete* is identified or identifiable, the <u>Laboratory</u> shall treat such data in accordance with the requirements of the *International Standard* for Data Protection (ISDP).

#### 5.3.6.4 Reporting Test Results

a) A <u>Laboratory</u> shall not conduct any additional <u>Analytical Testing</u> on a <u>Sample</u> for which the <u>Athlete</u> has been charged with a <u>Code</u> Article 2.1 Anti-doping Rule Violation unless the case has been finally resolved (as communicated to the <u>Laboratory</u> by the responsible <u>RMA</u>) or consent from the <u>Athlete</u> or approval from a hearing body is obtained by the RMA (see also Article 5.3.4.2).



- b) Unless specifically requested (or previously agreed with the <u>TA</u>, <u>RMA</u>, or *WADA*) to make a partial submission of test results <sup>21</sup>, a <u>Laboratory</u> should not report analytical results for any *Sample* until all analyses detailed in the <u>Analytical Testing</u> menu of the relevant DCF have been completed. Therefore:
  - i. If a <u>Laboratory</u> is requested to report an AAF(s) for a Sample before all analyses on that Sample have been completed, then the <u>Laboratory</u> shall advise the <u>TA</u> (or <u>RMA</u>, if different) that the Sample analysis has not been completed and, pursuant to Code Article 6.5, if the Athlete is charged with a Code Article 2.1 Anti-doping Rule Violation before the additional analyses on the Sample have been completed, then the additional analyses cannot be performed until the case has been finally resolved or consent from the Athlete or approval from a hearing body is obtained.
  - ii. If the <u>Laboratory</u> receives a request to conduct additional analyses (e.g., <u>CP</u>(s) for atypical or suspicious <u>Markers</u> of the <u>ABP</u>, ERA analysis for a suspicious hematological <u>Passport</u>), which are triggered by <u>ADAMS</u> notifications or <u>APMU</u> requests (see ISL <u>TD APMU</u>) after the "A" <u>Sample</u> has already been reported as an <u>AAF</u>, then the <u>Laboratory</u> shall advise the <u>RMA</u> that if the <u>Athlete</u> has been charged with a <u>Code</u> Article 2.1 Anti-doping Rule Violation, pursuant to <u>Code</u> Article 6.5 the additional analyses cannot be performed until the case is finally resolved or consent from the <u>Athlete</u> or approval from a hearing body is obtained.

#### c) Reporting Timelines

- Reporting of "A" Sample results by <u>Laboratories</u> should occur in ADAMS within twenty (20) days of receipt of the Sample, unless any of the following conditions apply:
  - GC/C/IRMS analysis has been requested by the <u>TA</u> as part of the initial <u>Analytical Testing</u> menu. In those cases, the "A" Sample results should be reported in ADAMS within twentyfive (25) days of Sample receipt.
  - The <u>Laboratory</u> has a prior agreement with the <u>TA(s)</u> regarding extended reporting times beyond twenty (20) days or has informed the <u>TA</u> (or <u>RMA</u>, if different) in *ADAMS* of any delay in the reporting of "A" *Sample* results, including the applicable reason(s), and the <u>TA</u> (or <u>RMA</u>, if different) has agreed to an extension of the reporting deadline. In the

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<sup>&</sup>lt;sup>21</sup> A partial submission of Test Results may occur for *Results Management* purposes, for example, when the availability of analytical results is time-sensitive (e.g., during <u>Major Events</u>) and other ongoing analyses may take longer to complete before the result is reported (for example, due to limited analytical capacity, longer times of *Sample* processing and analysis, ongoing relevant investigations, or the need to obtain second opinions pursuant to ISL Article 5.3.6.1.c).



absence of feedback from the <u>TA</u> (or <u>RMA</u>, if different) within seven (7) days of being notified by the <u>Laboratory</u> of the extended reporting deadline and its reason(s), the <u>Laboratory</u> should proceed with the assumption that the extended reporting deadline has been accepted by the <u>TA</u> (or RMA, if different).

To the extent possible, any agreed extension to the "A" *Sample* reporting deadline should not surpass forty-five (45) days from the data of reception of the *Sample* by the Laboratory.

[Comment to Article 5.3.6.4 c). Valid reasons for an extension of the results reporting timelines include, but are not limited to, the need to obtain second opinion(s) before the result can be reported (e.g., for ERA results – see ISL TD EPO); the need to subcontract an analysis that is not within the Laboratory's Scope of ISO/IEC 17025 Accreditation; a pending additional analysis that requires more time to complete (for example, if it depends on the collection of a follow-up Sample); the need for the splitting of the "A" or "B" sample (see Article 5.3.3.2); a temporary Laboratory analytical incapacity (e.g., instrument breakdown or need for Test Method revalidation), a failure by the TA to answer to Laboratory's enquiries in a timely manner, or national statutory holidays. If an extension to the reporting timelines is not approved by the TA, then the Laboratory, in consultation with the TA, shall subcontract the analysis to another Laboratory.]

- ii. The reporting time required for specific occasions (e.g., in preparation for or during Major Events) may be substantially less than twenty (20) days, and this should be accorded with the responsible MEO (or DTP delegated to undertake Doping Control responsibilities for the Major Event). In such cases, an agreement may be made with the Laboratory to prioritize the analysis of the Major Event Samples over other Samples. Requests by the MEO (or DTP delegated to undertake Doping Control responsibilities for the Major Event) for quicker reporting timelines shall be made (in writing) and agreed with the Laboratory and managed in ADAMS.
  - Where a Sample is collected from an Athlete within twenty (20) days prior to the Athlete's first competition at an Olympic or Paralympic Games for which an Athlete has qualified or is likely to participate, upon request of the <u>TA</u> and pursuant to the agreement with the <u>Laboratory</u>, the relevant Sample(s) should be prioritized by the <u>Laboratory</u> for expedited analysis. Results shall be reported, at the latest, seventy-two (72) hours prior to the Athlete's first Competition or (where applicable and possible) prior to the opening ceremony of the Olympic or Paralympic Games (see also IST Article 4.8.3).
  - Where a <u>Laboratory</u> is unable to meet the <u>TA</u>'s request for prioritized analysis, it shall inform the <u>TA</u> as soon as possible so that the TA can contact an alternative



- <u>Laboratory</u>(-ies) to have the *Samples* prioritized for analysis. Any costs associated with the additional shipment of the *Samples* to an alternative <u>Laboratory</u> are the responsibility of the TA.
- When the analysis of <u>Major Event</u> Samples is prioritized, the <u>Laboratory</u> shall inform their other customers, so that they can agree to a possible delayed analysis of their Samples or decide to send the Samples to another <u>Laboratory</u>(-ies).
- iii. The reporting of results for the *Markers* of the Hematological Module of the *ABP* by Laboratories should occur in *ADAMS* within three (3) days of receipt of the *Sample* (see ISL *TD* HEM).
- iv. Delays in reporting shall not invalidate a test result (including *AAFs* or *ATFs*).
- v. The <u>LDOCs</u> and/or <u>CoAs</u> should be provided by the Laboratory, only to the relevant <u>RMA</u> or *WADA*, upon request and should be provided within fifteen (15) days of the request, unless a different deadline is agreed upon with the requesting *ADO*.
- vi. WADA shall monitor Laboratory reporting times on a regular basis (e.g., quarterly). If a Laboratory's reporting delays are considered extensive [e.g., more than 30% of Samples are not reported within recommended period without a valid reason, as determined by WADA see also Comment to Article 5.3.6.4 c)], the Laboratory shall be requested to provide a Corrective Action Report (CAR) to remedy the situation, which shall be evaluated by the Lab EAG. If the delays in reporting are not resolved to the satisfaction of the Lab EAG, then the Laboratory shall be assigned points as per the Points Scale Table (see ISL TD PERF).

## 5.3.6.4.1 Reporting Requirements

- a) The Laboratory shall record the test result for each individual *Sample* from *ADOs* in *ADAMS*.
  - [Comment to Article 5.3.6.4.1 a): Test results for samples from non-Signatories, except WADA, shall not be reported in ADAMS].
- b) When reporting test results in *ADAMS*, the <u>Laboratory</u> shall include, in addition to the mandatory information stipulated in *ADAMS*, in the relevant ISL *TD*s or ISL *TL*s, and in the ISO/IEC 17025 standard, the following:
  - i. The SG of the urine *Sample* (<u>ITP</u> and "A" and "B" <u>CPs</u>).



- ii. The name of the RMA, if provided.
- iii. Relevant comments, if necessary, for proper interpretation of the test result or recommendations to the <u>TA</u> or <u>RMA</u>, if different (for example, for *Target Testing* of the *Athlete*).
- iv. Specific tests performed in addition to the <u>Laboratory</u>'s routine <u>Analytical Testing</u> menu (e.g., ERAs, GC/C/IRMS, hGH, HBT, DNA, genomic profiling, etc.).
- v. Any irregularities noted on Samples.
- vi. Any refusal by the *Athlete* and/or their representative(s) or the Independent Witness, as applicable, to sign the <u>Laboratory</u> documentation for the "B" *Sample* opening, aliquoting or resealing procedures (see Article 5.3.4.1.4).
- c) The <u>Laboratory</u> is not required to provide any additional Test Report, either in hard copy or digital format, other than the submission of test results in *ADAMS*. All *ADO*s shall access the Test Reports of their *Samples* in *ADAMS*. However, upon request by the *ADO*, the <u>Laboratory</u> may report additional information directly to the *ADO* after reporting the test results in *ADAMS* (for example, estimated concentrations of <u>Non-Threshold Substances</u>).
- d) WADA may also request the <u>Laboratory</u> to report additional analytical data (e.g., reference population data) in a format specified by WADA. In addition, the <u>Laboratory</u> shall also provide any information requested by WADA in relation to the <u>Monitoring Program</u> (see <u>Code</u> Article 4.5).
- e) The <u>Laboratory</u> shall qualify the result(s) of the analysis in the *ADAMS* Test Report as:
  - i. AAF, or
  - ii. ATF, or
  - iii. Negative Finding, or
  - iv. Not Analyzed

[Comment to Article 5.3.6.4.1 e)-iv: The Laboratory shall report as "Not Analyzed" any Sample received at the



<u>Laboratory</u> which is not subjected to <u>Analytical Testing</u> for a valid, documented reason (as instructed by or agreed with the <u>TA</u>) such as Sample irregularities, intermediate Samples of a <u>SCS</u>, etc. (see Articles 5.3.2 and 5.3.2.1).]

# 5.3.6.4.2 Test Report for Non-Threshold Substances

a) "A" Sample Test Report

Following the <u>Laboratory's</u> report of the "A" Sample results as an AAF or an ATF for a <u>Non-Threshold Substance</u>, the <u>RMA</u> or WADA may request (in writing), and the <u>Laboratory</u> shall provide (where possible), the estimated concentration(s) of the <u>Analyte(s)</u> of the <u>Non-Threshold Substance</u> detected in the <u>Sample</u>, irrespective of whether the <u>Non-Threshold</u> Substance is subject to an MRL or not.

The <u>Laboratory</u> shall report the estimated concentration in writing (and include in the <u>LDOC</u>, if requested) and indicate that the concentration was estimated by a <u>Qualitative Procedure</u> that has not been validated for quantitative purposes.

[Comment to Article 5.3.6.4.2 a) The <u>Laboratory</u> may, occasionally, be unable to report the estimated concentration of the <u>Analyte(s)</u> for a <u>Non-Threshold Substance</u> not subject to an MRL (for example, in the absence of corresponding <u>RM(s)</u>, when the identification of the <u>Analyte(s)</u> has been based on the use of a <u>RC(s)</u> for which the concentration of the <u>Analyte(s)</u> is not known)].

- Non-Threshold Substances not subject to an MRL
  - The <u>Laboratory</u> shall report the <u>Prohibited Substance</u> or <u>Prohibited Method</u> present (i.e., identified) in the "A" <u>Sample</u> (in accordance with the identification and reporting requirements established in the ISL <u>TD</u> IDCR or other applicable ISL <u>TD</u> or ISL <u>TL</u>) as an <u>AAF</u>.

[Comment to Article 5.3.6.4.2 a)-i: When applicable, the <u>Laboratory</u> shall record in the ADAMS Test Report the specific <u>Analyte(s)</u> of the <u>Non-Threshold</u> Substance that were identified in the Sample.]

 The Minimum Required Performance Level (MRPL) is not a reporting requirement for a Non-Threshold Substance without an MRL (see also the ISL TD MRPL). Therefore, the Laboratory should report the presence of a



Non-Threshold Substance without an MRL at an estimated concentration below the MRPL (or below the validated LOI – see TD VAL) if an Analyte of the Non-Threshold Substance is identified in the "A" Sample in accordance with the ISL TD IDCR and/or other applicable ISL TD or ISL TL.

## ii. Non-Threshold Substances subject to an MRL

- The <u>Laboratory</u> shall report the <u>Non-Threshold Substance</u> as an *AAF* when the relevant target <u>Analyte(s)</u> <sup>22</sup> identified in the "A" *Sample* (in accordance with the ISL *TD* IDCR or other applicable ISL *TD* or ISL *TL*) are present at an estimated concentration which is higher than the corresponding *MRL* (see ISL *TD MRL*).
- Under certain circumstances, the <u>Laboratory</u> may report the presence of a <u>Non-Threshold Substance</u> with an *MRL* if identified in a *Sample* at an estimated concentration below the *MRL*, in accordance with the ISL *TD MRL*.

[Comment to Article 5.3.6.4.2 a)-ii: For avoidance of doubt, nothing shall prevent the <u>Laboratory</u>, upon written request by the <u>TA</u> (or <u>RMA</u>, if different) or WADA, from disclosing to the requesting ADO information about the presence of a <u>Non-Threshold Substance</u> with an MRL at an estimated concentration below the MRL.]

#### b) "B" Sample Test Report

For Non-Threshold Substances, irrespective of whether they are subject to an MRL, the Laboratory Test Report for the "B" Sample shall only specify the Prohibited Substance present (i.e., identified), at any level, in the "B" Sample (in accordance with the identification requirements established in the ISL TD IDCR or other applicable ISL TD or ISL TL). The Laboratory is not required to estimate nor report the concentration of the Non-Threshold Substance in the "B" Sample.

[Comment to Article 5.3.6.4.2 b): Where applicable, the Laboratory shall record in the ADAMS Test Report the

The relevant target Analyte(s) of a Non-Threshold Substance subject to an MRL is the Analyte(s) to which the MRL is applied (i.e., the Prohibited Substance and/or its Metabolite(s) and/or its Marker(s), as defined in a relevant ISL TD (e.g., ISL TD MRL) or ISL TL.



specific <u>Analyte(s)</u> of the <u>Non-Threshold Substance</u> that were identified in the "B" Sample.]

# 5.3.6.4.3 Test Report for <u>Threshold Substances</u>

- a) "A" Sample Test Report
  - i. For Threshold Substances, the Laboratory Test Report for the "A" Sample shall establish that the identified Analyte(s) of the Prohibited Substance is present at a level of a measured property value (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by WADA) greater than the DL, and/or that the Analyte(s) of the Prohibited Substance is of exogenous origin.
  - ii. Where the value of an Analyte(s) of a Threshold Substance exceeds the Threshold value but is less than or equal to (≤) the DL, the Laboratory shall report this result as a Negative Finding and include a recommendation (e.g., in the comments section of the Test Report in ADAMS) for the ADO (TA or RMA, if different, or WADA) to consider this result for Target Testing purposes.

[Comment to Article 5.3.6.4.3 a)-iii: For avoidance of doubt, nothing shall prevent the <u>Laboratory</u>, upon written request by the <u>TA</u> (or <u>RMA</u>, if different) or WADA, from disclosing to the requesting ADO information about the presence of a <u>Threshold Substance</u> at a concentration below the DL.]

# b) "B" Sample Test Report

i. Exogenous Threshold Substances

The <u>Laboratory</u> Test Report for the "B" Sample shall only establish the presence (i.e., the identity) of the <u>Analyte(s)</u> of the <u>Prohibited Substance</u> (in accordance with the ISL *TD* IDCR or other applicable ISL *TD* or ISL *TL*). The <u>Laboratory</u> is not required to estimate/quantify nor report the concentration(s) of the <u>Threshold Substance</u>.

#### ii. Endogenous Threshold Substances

The <u>Laboratory</u> Test Report for the "B" Sample shall establish that:



- The identified (in accordance with the ISL TD IDCR or other applicable ISL TD or ISL TL) Analyte(s) of the Prohibited Substance is present at a level of a measured property value (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by WADA), which is greater than the DL <sup>23</sup>, or
- The <u>Analyte(s)</u> of the *Prohibited* Substance is of exogenous origin.

# 5.3.7 Storage of Samples 24

### 5.3.7.1 Minimum Storage of Samples

- a) The Laboratory shall store Samples in a restricted and secure location under appropriate storage conditions and continuous LCOC.
- b) The Laboratory shall maintain all chain of custody and other records (either as hard copy or in digital format) pertaining to stored Samples.
- c) Samples shall be stored, at minimum, for the applicable storage periods defined in Table 1 below after reporting all Sample results ("A" and "B", as applicable) in ADAMS and may be stored for a maximum of ten (10) years after the Sample collection date, unless Sample direct identifiers are removed for secondary use of the Sample(s) (see Article 5.3.8.2).
  - i. If the "B" Sample <u>CP</u> is not performed, the <u>Laboratory</u> may dispose of both the "A" and "B" Samples after the corresponding minimum storage time (see Table 1) following the reporting of the "A" Sample analytical result.
  - ii. However, if the "B" Sample <u>CP</u> is performed, then the <u>Laboratory</u> shall retain both the "A" and "B" Samples for the corresponding minimum storage time after reporting the "B" Sample analytical result.
- d) Unless there is a prior agreement in writing with the <u>Laboratory</u>, the <u>RMA</u> or *WADA* is responsible for requesting the <u>Laboratory</u> to extend the *Sample* storage period (including those *Samples*

The <u>Thresholds</u> for endogenous <u>Threshold Substances</u> have been established based on reference population statistics and already incorporate a guard band that reflects the uncertainty of the measurements. Therefore, the <u>Threshold</u> constitutes the *DL*. The assay <u>MU</u> shall not be added to the test result for reporting an *AAF* or an *ATF*.

This refers to Samples stored in Sample collection containers (urine collection bottles, blood collection tubes, DBS devices) and should not be confused with access to Aliquots, which should be accessible to analysts for the performance of ATPs. However, minimum and maximum retention times apply to any Aliquot(s) of a Sample that remains after completion of the Analytical Testing.



reported as *AAFs* or *ATFs*), beyond the applicable minimum *Sample* storage time defined in Table 1. Requests for long-term storage to the <u>Laboratory</u> and confirmation by the <u>Laboratory</u> that the *Sample*(s) have been placed into long-term storage shall be made in *ADAMS*.

e) If the <u>Laboratory</u> has been informed by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA* (in writing and within the applicable minimum storage period as defined in Table 1) that the analysis of a *Sample* is challenged, disputed or under investigation, the <u>Laboratory</u> shall retain both the "A" and "B" *Samples* until further notice by the TA (or RMA, if different) or *WADA*, as applicable.

Table 1. Minimum Sample Storage Periods

Sample Matrix		Storage conditions <sup>a</sup>	Minimum Storage times <sup>b</sup>		
			Negative Finding	Not Analyzed	AAF / ATF °
Urine		Frozen (≤ -15°C)	3 months	3 months	6 months
Whole Blood	Whole venous or liquid capillary blood d	Refrigerated	1 month	1 month	3 months
	Plasma <sup>e</sup> Serum <sup>e</sup>	Frozen (≤ -15°C)	3 months	3 months	6 months
DBS f		Frozen (≤ -15°C)	6 months	6 months <sup>g</sup>	

- <sup>a</sup> Or as otherwise established in an ISL TD or ISL TL.
- b The <u>Laboratory</u> may charge storage costs to the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*, as applicable, for the storage of *Samples* for periods longer than the stated minimum storage times. However, the <u>Laboratory</u> may store *Samples* beyond the applicable minimum storage times at their own discretion and expense. In such cases, the <u>Laboratory</u> shall inform the responsible <u>TA</u>. Any <u>Further Analysis</u> on these *Samples* shall require the approval of the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*.
- c If the "B" Sample <u>CP</u> is not performed, the <u>Laboratory</u> may dispose of both the "A" and "B" Samples after the corresponding minimum storage time following the reporting of the "A" Sample analytical result. However, if the "B" Sample <u>CP</u> is performed, then the <u>Laboratory</u> shall retain both the "A" and "B" Samples for the corresponding minimum storage time after reporting the "B" Sample analytical result.
- <sup>d</sup> Samples for which <u>Analytical Testing</u> was performed on the whole blood or on its cellular fraction, including those collected for the analysis of the <u>Markers</u> of the Hematological Module of the <u>ABP</u>.
- <sup>e</sup> Following the conclusion by the <u>Laboratory</u> of a <u>PAAF</u> in a plasma or serum "A" Sample, the <u>Laboratory</u> shall transfer the corresponding "B" Sample tube to storage at -70 °C or less. After the "B" Sample is opened for <u>CP</u> aliquoting, the resealed "B" Sample shall be returned to storage at -70 °C or less.
- f If the <u>Analytical Testing</u> has been performed on the cellular fraction of a DBS <u>Sample</u>, then the minimum storage periods established for whole blood <u>Samples</u> shall be followed.
- <sup>9</sup> Not Analyzed DBS *Samples* shall be stored, at a minimum, for the storage period requested by the <u>TA</u>. The <u>TA</u> shall be responsible for any costs associated with an extended DBS *Sample* storage period beyond six (6) months.



### 5.3.7.2 Long-term Storage of Samples

At the direction of the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*, or at the <u>Laboratory</u>'s own decision and expense (in which case the <u>Laboratory</u> shall inform the <u>TA</u>) any urine or serum/plasma/DBS *Sample* may be stored in long-term storage (i.e., beyond the minimum storage periods established in Article 5.3.7.1) for up to ten (10) years after the *Sample* collection date for the purpose of <u>Further Analysis</u> (see Article 5.3.4.2). Any extended *Sample* storage initiated by an *ADO* shall be conducted at the *ADO*'s expense.

[Comment to Article 5.3.7.2: For the transfer of ownership of Samples after the applicable minimum required storage periods or when placed under long-term storage to another ADO with jurisdiction over the Sample, refer to IST Articles 10.2.3 to 10.2.5).]

Sample(s) may be stored in long-term storage under the custody of a <u>Laboratory</u> or transferred to another <u>Fit-for-Purpose</u> facility. The <u>TA</u> shall retain the *Sample* collection records pertaining to all stored *Samples* for the duration of *Sample* storage.

### a) Laboratories as Sample Custodians

- The <u>Laboratory</u> shall ensure that <u>Samples</u> are stored according to established protocols in a secure location in the <u>Laboratory</u>'s permanent controlled zone and under continuous <u>LCOC</u>.
- ii. The written request from the <u>TA</u> (or <u>RMA</u>, if different) or *WADA* for long-term storage of *Samples* shall be properly documented.
- iii. Samples may also be transported for long-term storage to a specialized, secure Sample storage facility, which is located outside the <u>Laboratory</u>'s permanent controlled zone and is under the responsibility of the <u>Laboratory</u> or may be transported to another <u>Laboratory</u>.
  - If the external Sample storage facility is not covered by the Laboratory's ISO/IEC 17025 accreditation, then the subcontracted external storage facility shall be <u>Fit-for Purpose</u> and have its own ISO accreditation or certification (e.g., 17025, 20387, 9001).
  - The transfer of the Samples to the external long-term storage facility or <u>Laboratory</u> shall be recorded.
  - If Sample(s) are to be transported for storage at a location outside the secured area of the <u>Laboratory</u> (which is not part of the <u>Laboratory</u>'s accredited area), and if the <u>Sample(s)</u> are not within the immediate supervision of a <u>Laboratory</u> staff member throughout the transfer, the <u>Laboratory</u> shall secure the "A" <u>Sample(s)</u> to be shipped either by resealing the individual "A" <u>Sample</u> container(s) with a tamper-evident



sealing system, which has similar capabilities for security and integrity as the original sealing system, or by sealing the box in which the *Sample(s)* are shipped in a manner that maintains *Sample* integrity and <u>LCOC</u>. Neither the *Athlete* nor their representative nor an <u>Independent Witness</u> is required to be present for this procedure.

[Comment to Article 5.3.7.2 a)-iii: For example, Sample(s) may be resealed with new resealing systems (e.g., new bottle caps) produced by the manufacturer of an appropriate Sample collection equipment that replicates the security and tamper-evident functionality of the original seal. The resealing system of shipped "A" Sample(s) shall be tamper evident.]

- "B" Sample(s) to be shipped shall be individually sealed, either in the original, sealed "B" Sample container(s) or, if previously opened, by resealing the individual "B" Sample container(s) with a tamper-evident sealing system, which has similar capabilities for security and integrity as the original sealing system. The resealing of the "B" Sample(s), if necessary, shall be witnessed by either the Athlete or their representative or by an appointed Independent Witness.
- During transport and long-term storage, Sample(s) shall be stored at an appropriate temperature to maintain the integrity of the Sample(s). In any anti-doping rule violation case, the issue of the Sample's transportation or storage temperature shall be considered where failure to maintain an appropriate temperature could have caused the AAF or other result upon which the Anti-doping Rule Violation is based.
- iv. The <u>Laboratory</u> shall retain all <u>LCOC</u> and technical records (as per ISO/IEC 17025) pertaining to a stored *Sample* for the duration of *Sample* storage, either as hard copy or in digital format. In addition, the <u>Laboratory</u> may retain *Sample* Analytical Data which would allow retrospective analysis of such data, for example, for the purpose of identifying signals for novel <u>Analytes</u> of *Prohibited Substances* or *Prohibited Methods* (e.g., full-scan mass spectrometry data) as detailed in Article 5.3.4.2 b)-v.
- v. If Sample(s) are transported to another <u>Laboratory</u> for long-term storage, the Sample's external chain of custody and other non-analytical records (e.g., DCF), available to the transferring <u>Laboratory</u>, shall also be transferred, immediately or upon later request, to the <u>Laboratory</u> storing the Samples or to the <u>TA</u>, either as originals or copies.

### b) ADO as Sample Custodian

Sample(s) may also be transported for long-term storage to a <u>Fit</u>for-Purpose, secure Sample storage facility, which is under the



responsibility of the *ADO* that has ownership over the *Samples*, or under the responsibility of a *DTP* designated by the *ADO* for the storage of the *Samples* (while the *ADO* retains ownership of the *Samples*).

- i. The external storage facility shall have its own ISO accreditation or certification (e.g., 17025, 20387, 9001) and shall maintain security requirements comparable to those applicable to a <u>Laboratory</u>.
  - The ADO/DTP shall ensure that Samples are stored according to established protocols in a secure location under continuous chain of custody.
  - The ADO's written request to the <u>Laboratory</u> for the transfer of the <u>Sample(s)</u> to long-term storage shall be properly documented.
  - The transfer of the Samples to the external long-term storage facility shall also be recorded.
  - The <u>Laboratory</u> shall secure the <u>Sample(s)</u> for transportation to the long-term storage facility as described above.
- ii. The <u>Laboratory</u> shall retain all <u>LCOC</u> and technical records (as per ISO/IEC 17025) pertaining to all *Samples* transferred for long-term storage for the duration of *Sample* storage, either as hard copy or in digital format. In addition, the <u>Laboratory</u> may retain *Sample* Analytical Data which would allow retrospective analysis of such data.
- iii. The <u>Laboratory</u> shall transfer *Sample*'s external chain of custody and other non-analytical records to the *ADO*, either as originals or copies, immediately or upon request.

### 5.3.8 Secondary Use or Disposal of Samples and Aliquots

The Laboratory shall maintain Management System procedure(s) pertaining to the secondary use of *Samples* or <u>Aliquots</u> for research or *Quality Assurance*, as well as for the disposal of *Samples* and Aliquots.

The requirements of this Article 5.3.8 apply *mutatis mutandis* to an *ADO* that takes custody of *Samples* for long-term storage.

When the minimum applicable *Sample* storage period has expired (see Table 1 in Article 5.3.7.1), and neither the <u>TA</u> (or <u>RMA</u>, if different) nor *WADA* have requested the long-term storage of the *Sample* for the purpose of <u>Further Analysis</u> or have informed the <u>Laboratory</u> that a challenge, dispute, or longitudinal study is pending, or if the <u>Laboratory</u> has not made its own decision to keep the *Samples* for long-term storage, the <u>Laboratory</u> shall do one of the following with the *Sample(s)* and <u>Aliquots</u> as soon as practicable:



### 5.3.8.1 Disposal of the Sample(s) and Aliquots

The disposal of *Samples* and <u>Aliquots</u> shall be recorded under the LCOC.

# 5.3.8.2 Secondary use of Samples and Aliquots for Research and Quality Assurance Purposes

- a) Before analyzing Samples and/or assessing Analytical Data for research or Quality Assurance, direct identifiers shall be removed or irreversibly altered as to prevent Samples and Analytical Data from being traced back to a particular Athlete (see also Code Article 6.3).
- b) Only after the removal or irreversible change of identifiers, may a *Sample* or <u>Aliquot</u> be used for:
  - i. Research, only if the *Athlete's* has consented to the use of their *Sample* for research; or

[Comment to Article 5.3.8.2 b): Athlete consent for research, as declared in the DCF or as obtained by other means, shall be recorded in the <u>Laboratory</u>'s documentation for reference.]

- ii. Quality Assurance, for which Athlete's consent is not required (see also Comment to Code Article 6.3).
- c) The use of *Samples* and <u>Aliquots</u> for the purposes of this Article 5.3.8.2 is subject to the following conditions:
  - The <u>Laboratory</u> shall respect *Code* Articles 6.3 and 19, and the ISL Code of Ethics requirements related to research, types of permitted research, and the ethical standards for research or *Quality Assurance* studies involving human subjects.
  - ii. The <u>Laboratory</u> shall not make any attempt to re-identify an <u>Athlete</u> from <u>Samples</u> or <u>Aliquots</u> used for the purposes of this Article 5.3.8.2 or data arising from any research or <u>Quality</u> <u>Assurance</u> analysis.
  - iii. The <u>Laboratory</u> shall consult the applicable *WADA* guidelines, national regulations, guidance, or authorities to determine whether a study should be considered as falling under research or *Quality Assurance*.

[Comment to Article 5.3.8.2 c)-iii: If the <u>Laboratory</u> is unsure whether a study can proceed without Athlete consent after consulting the foregoing sources, the <u>Laboratory</u> shall consult WADA].

d) In the event the <u>Laboratory</u> wishes to transfer <u>Sample(s)</u> or <u>Aliquots</u> to be used for the purposes of this Article 5.3.8.2 to another <u>Laboratory</u> or a third-party research institution or group, or wishes to partner with another <u>Laboratory</u> or research institution or group for the purpose of an Article 5.3.8.2 study, the



<u>Laboratory</u> shall subject the receiving party to the conditions described in this Article 5.3.8.2 by way of a written agreement and shall prohibit the receiving party from further transferring any Sample or <u>Aliquot</u> or related data to another party.

## 5.3.9 Complaints <sup>25</sup>

The <u>Laboratory</u> shall handle complaints in accordance with ISO/IEC 17025.

## 5.3.10 Control of Nonconformities in Analytical Testing 25

The <u>Laboratory</u> shall have policies and procedures that shall be implemented when any aspect of its <u>Analytical Testing</u> does not comply with the set requirements.

- a) Any nonconformities in <u>Analytical Testing</u> shall be recorded and kept as part of the documentation of the <u>Sample(s)</u> involved.
- b) Risk Minimization:
  - <u>Laboratories</u> shall take Corrective Actions in accordance with ISO/IEC 17025.
  - ii. When conducting a Corrective Action investigation, the <u>Laboratory</u> shall perform and record a thorough <u>Root Cause Analysis</u> (<u>RCA</u>) of the nonconformity.
- c) Improvement: The <u>Laboratory</u> shall maintain, and when appropriate, improve the effectiveness of its Management System in accordance with ISO/IEC 17025.

### 5.4 Management Requirements <sup>25</sup>

### 5.4.1 Organization

Within the framework of ISO/IEC 17025, the <u>Laboratory</u> shall be considered as a testing laboratory.

### 5.4.2 Management Reviews

The <u>Laboratory</u> shall conduct management reviews to meet the requirements of ISO/IEC 17025.

### 5.4.3 Document Control

The control of documents that make up the <u>Laboratory</u>'s Management System shall meet the requirements of ISO/IEC 17025.

While Articles 5.3.9, 5.3.10 and 5.4.1 – 5.4.5 are described for application by <u>Laboratories</u> in accordance with ISO/IEC 17025 (for testing laboratories), they are also relevant, where applicable, for <u>ABP Laboratories</u> within the framework of ISO 15189 (for medical laboratories).



- a) The <u>Laboratory</u> Director (or designee) shall approve the Management System documentation and all other documents used by <u>Laboratory</u> staff members involved in <u>Analytical Testing</u>.
- b) The <u>Laboratory</u> shall implement a procedure in its Management System to ensure that the contents of ISL, ISL *TD*s and ISL *TL*s are incorporated into the <u>Laboratory</u>'s SOPs by the applicable effective date and that implementation is completed, recorded, and assessed for compliance.
  - If this is not possible, the <u>Laboratory</u> shall send a written request for an extension beyond the applicable effective date for consideration by WADA.
  - ii. Any failure by the <u>Laboratory</u> to implement mandatory requirements by the established effective date, without a prior approval by *WADA*, shall be considered a noncompliance and may affect the <u>Laboratory</u>'s accreditation status.
- c) The <u>Laboratory</u> should also consider implementing the guidance of best practice provided in <u>LGs</u> and <u>TNs</u> in its Management System and SOPs.

### 5.4.4 Control of Data and Information Management

- a) The <u>Laboratory</u> shall keep a copy of all <u>Sample</u> records to the extent needed to produce <u>LDOCs</u> or <u>CoAs</u>, in accordance with the ISL <u>TD LDOC</u>, in secure storage until <u>Sample</u> disposal or anonymization (see Article 5.3.8).
- b) In addition, this information shall be stored for ten (10) years from collection date for all *Sample* data and chain-of-custody information related to the *ABP*.

### 5.4.5 Cooperation with Customers and with WADA

The <u>Laboratory</u> shall cooperate with customers in accordance with ISO/IEC 17025.

a) Ensuring Responsiveness to WADA

The Laboratory Director or their designee shall:

- i. Ensure adequate communication with *WADA* in a timely manner.
- ii. Provide complete, appropriate, and timely explanatory information as requested by *WADA*.
- iii. Report to *WADA* any unusual circumstances or information regarding <u>Analytical Testing</u>, patterns of irregularities in *Samples*, or potential *Use* of new substances.
- iv. Report to *WADA* any disruption in the application of mandatory <u>ATP(s)</u> (see ISL *TD* <u>ATP)</u> that may significantly affect the timely reporting of test results. This includes providing the reason(s) for the temporary



- unavailability of the <u>Test Method</u>, actions necessary to resolve the situation, and if applicable, which <u>Laboratory</u>(-ies) have been subcontracted to perform the analysis.
- v. Provide documentation to *WADA* (e.g., Management System documentation, SOPs, contracts not including commercial or financial information with *ADOs*, or with *DTP*s acting on behalf of *ADOs*) upon request to ensure conformity with the rules established under the *Code* as part of the maintenance of *WADA* accreditation. This information shall be treated in a confidential manner.

## b) Ensuring Responsiveness to <u>TA</u> and/or <u>RMA</u>

- i. The <u>Laboratory</u> Director shall be familiar with the <u>TA</u> rules and the *Prohibited List*.
- ii. The <u>Laboratory</u> Director shall interact with the <u>TA</u> and/or <u>RMA</u> regarding specific timing, report information, or other support needs. These interactions should occur in a timely manner and should include, but are not limited to, the following:
  - Communicating with the <u>TA</u> and/or <u>RMA</u> concerning any significant question of <u>Analytical Testing</u> needs or any unusual circumstance in the <u>Analytical Testing</u> process (including delays in reporting).
  - Providing complete, timely and unbiased explanations to the <u>TA</u> and/or <u>RMA</u> when requested or when there is a potential for misunderstanding of any aspect of the <u>Analytical Testing</u> process, <u>Laboratory</u> Test Report, <u>CoA</u> or <u>LDOC</u>.
  - If requested by the <u>TA</u> and/or <u>RMA</u>, the <u>Laboratory</u> shall provide advice and/or opinion to the <u>TA</u> and/or <u>RMA</u> regarding the *Prohibited* Substances and *Prohibited Methods* included in the ATP(s).

### c) Laboratory Expert Opinions

- i. The <u>Laboratory</u> shall provide evidence and/or expert testimony on test results or reports produced by the <u>Laboratory</u> as required in administrative, arbitration, or legal proceedings.
- ii. The requests for expert testimony from the <u>TA</u>, <u>RMA</u> (if different), *WADA* or hearing bodies as part of the *Results Management* process shall be made in writing.
- iii. <u>Laboratory</u> expert opinions shall be in accordance with the ISL Code of Ethics (see Article 8.5).
- iv. The <u>Laboratory</u> shall not provide expert testimony directly to *Athletes* or *Athletes*' representatives, including their legal counsels.
- v. The <u>Laboratory</u> shall refuse to provide the requested expertise, if it falls outside its competence, knowledge or experience.



[Comment to Article 5.4.5 c): The <u>Laboratory</u> shall have a policy regarding the provision of opinions and interpretation of data. An opinion or interpretation may be included in the ADAMS Test Report provided that the opinion or interpretation is clearly identified as such.

The basis upon which the opinion has been made shall be documented. An opinion or interpretation may include, but not be limited to, recommendations on how to use results, information related to the pharmacology, metabolism, and pharmacokinetics of a substance, whether the observed results may suggest the need for additional investigations regarding potential environmental contamination causes and/or <u>Further Analysis</u> and whether an observed result is consistent with a set of reported conditions.]

- d) Responding to any complaint submitted by a <u>TA</u> or <u>RMA</u> concerning the <u>Laboratory</u> and its operation.
  - i. As required by ISO/IEC 17025, the <u>Laboratory</u> shall actively monitor the quality of the services provided to the relevant *ADO*s, including the introduction of an annual questionnaire to customers to assess their satisfaction (or otherwise) with the performance of the Laboratory.
  - ii. There should be documentation that the <u>TA</u> or <u>RMA</u> concerns have been incorporated into the <u>Laboratory</u>'s Management System where appropriate.



# 6.0 WADA Laboratory Monitoring and Performance Evaluation Activities

WADA shall monitor <u>Laboratory</u> accreditation or <u>ABP Laboratory</u> approval status by reviewing their compliance with the applicable requirements listed in the ISL and related ISL *TD*s and ISL *TL*s, as well as by monitoring their performance in the <u>EQAS</u> and during routine <u>Analytical Testing</u>.

## 6.1 WADA Laboratory Monitoring

WADA shall monitor the compliance and performance of Laboratories through a series of monitoring and assessment activities, which include but are not limited to:

- a) The WADA EQAS Program.
- b) WADA Laboratory Assessments, and
- c) Removal of Samples for analysis, Further Analysis or Quality Assurance purposes.

### 6.1.1 WADA External Quality Assessment Scheme

Laboratories are required to participate in Proficiency Testing or other inter-Laboratory studies to monitor their performance by comparing their results with the results of other Laboratories. In this regard, the <u>EQAS</u> is a valuable Proficiency Testing program for Laboratories to achieve this external quality control surveillance.

For full details on the *WADA* <u>EQAS</u>, including types, number, and composition of <u>EQAS</u> samples, as well as Laboratory requirements for the analysis of <u>EQAS</u> samples and reporting of <u>EQAS</u> results, refer to the ISL TD <u>EQAS</u>.

### 6.1.2 WADA Laboratory Assessments

WADA reserves the right to inspect and assess <u>Laboratories</u> and <u>ABP</u> <u>Laboratories</u> by conducting Document Audits and/or On-site and/or Remote (online) Assessments at any time. In addition, WADA performs Assessments of <u>Candidate laboratories</u> and <u>Probationary laboratories</u> as part of PPT and FAT, respectively (see Articles 4.1.2.7 and 4.1.3.8), as well as of <u>Candidate ABP laboratories</u> prior to their ABP approval (see Article 4.2.2.6).

As part of an announced or unannounced Laboratory Assessment, *WADA* retains the right to request copies of Laboratory documentation, request the analysis of <u>EQAS</u> samples and/or request <u>Further Analysis</u> of selected "A" and/or "B" *Samples* either on-site or in a Laboratory(-ies) selected by *WADA*.

### 6.1.2.1 Types of WADA Laboratory Assessments

WADA Laboratory Assessments fall into one of the following two (2) categories:

 Assessments Related to <u>Laboratory</u> Accreditation or Approval Procedures



This type of Assessment is conducted in relation (but not limited) to the following <u>Laboratory</u> accreditation or <u>ABP Laboratory</u> approval procedures:

- i. PPT of Candidate laboratories (see Article 4.1.2.7).
- ii. FAT of Probationary laboratories (see Article 4.1.3.8).
- iii. Approval of <u>ABP Laboratory</u> (see Article 4.2.2.6).
- iv. <u>Laboratory</u> preparation for <u>Analytical Testing</u> during <u>Major Events</u> (see Articles 4.3.1.1 and 4.3.2.1).
- v. ATR or Suspension of a Laboratory (see Article 7.1.1).
- vi. Suspension of an ABP Laboratory (see Article 7.6).
- Assessments Related to WADA's Regular Laboratory Monitoring Activities

As part of *WADA*'s mandate to monitor Laboratory performance, *WADA* has implemented a program of regular Laboratory Assessments. The Assessments are aimed at evaluating Laboratory operations and, when needed, provide guidance to strengthen Laboratory performance and ensure compliance with the ISL and related ISL *TD*s and ISL *TL*s.

Scheduling of *WADA* Laboratory Assessments is done in consultation with the *WADA* Lab EAG and shall be guided by the following principles:

- i. Prioritization of Assessments shall be based on Laboratory performance and compliance with *WADA* standards, including (but not limited to):
  - EQAS and routine Analytical *Testing* performance.
  - Failure to implement mandatory <u>ATPs</u>, or issues with Laboratory operational environment (e.g., lack of independence, customers, low number of *Samples* analyzed, insufficient R&D activities).
  - Intelligence information received by WADA may also trigger a Laboratory Assessment.
- ii. WADA's objective is to perform an Assessment of each Laboratory within a reasonable timeframe. However, a Laboratory may be assessed more or less frequently in consideration of point i. above and as determined by WADA.

*WADA* shall inform the Laboratories about which Laboratories were assessed on an annual basis.



### 6.1.2.2 WADA Laboratory Assessment Requirements

### a) Assessment Team

WADA shall appoint an Assessment Team consisting of a Lead Assessor (Team Leader, who shall be a WADA staff member) and, where required, a suitable number of Technical Experts for the scope of the Assessment.

- In addition to WADA representative(s), the Assessment Team shall include members of the <u>Lab EAG</u> and, where appropriate, external Technical Experts (for example, members of WADA Technical Working Groups).
- ii. The Assessment Team members may include Laboratory Directors or scientists from other Laboratories.
- iii. In addition, WADA may invite representative(s) of the AB responsible for the Laboratory's ISO/IEC 17025 (or ISO 15189, as applicable to <u>ABP Laboratories</u>) accreditation, as observers during part(s) or the entire duration of the Assessment.

For announced Assessments, *WADA* shall inform the Laboratory, in advance, of the *WADA* Assessment Team composition, as well as the invited AB observers (if applicable). Thereby, the Laboratory shall be provided with the opportunity to lodge an objection, if any, to the appointment of any (non-*WADA* staff) Assessment Team member(s) or AB observer(s) with reasonable justification (e.g., perceived conflicts of interest). *WADA* shall consider the objection(s) raised and reserves the right to reject the objection if determined to be unfounded. Furthermore, the Laboratory has the right to lodge justified complaints to *WADA* about the inappropriate behavior of any Assessment Team member (including *WADA* staff) during the Assessment (e.g., unethical behavior, perceived conflicts of interest).

### b) Assessment Agenda

For an announced Assessment, *WADA* shall also provide the Laboratory, in advance, a draft Assessment Agenda, as well as requests to provide Laboratory documentation (e.g., Laboratory ISO/IEC 17025 accreditation certificate and Scope of Accreditation, most recent ISO/IEC 17025 Assessment Report, Laboratory staff list and organizational chart, list of <u>RMs/RCs</u>, <u>Test Method</u> Validation Reports and Management System documentation, etc.).



### c) Assessment Report

Following the conduct of an Assessment, *WADA* shall provide an Assessment Report with the outcomes of the Assessment within thirty (30) days, including any identified nonconformities for the Laboratory to implement the necessary improvements. Identified nonconformities shall be addressed by the Laboratory and corrective measures reported to *WADA* within thirty (30) days, or as otherwise indicated by *WADA*. For further evaluation of Laboratory nonconformities, refer to the ISL *TD* PERF.

## 6.1.3 Removal of Samples by WADA

- Removal of Samples for Analysis or Further Analysis
  - i. Within the context of an investigation or <u>Laboratory</u> performance monitoring activity (for example, during an on-site *WADA* <u>Laboratory</u> Assessment) and pursuant to *Code* Article 6.8, *WADA*, initially at its expense, may remove *Sample*(s) from a <u>Laboratory</u> to conduct analysis or <u>Further Analysis</u> of the *Sample*(s) for the purposes described in *Code* Article 6.2. In such cases, *WADA* shall provide notice [prior to or within a reasonable time after taking possession of the *Sample*(s)] to the <u>Laboratory</u> and to the *ADO*(s) whose *Samples* have been taken (see also *Code* Article 6.8).

[Comment to Article 6.1.3 a): If <u>Laboratory</u> nonconformities are revealed with respect to the <u>Analytical Testing</u> of any Sample, WADA retains the right to recover the expenses incurred in connection with the removal, shipping and analysis or <u>Further Analysis</u> of the Samples from the <u>Laboratory</u>.]

- ii. WADA, at its discretion, may delegate an observer to monitor the removal of the Samples, which shall be implemented in accordance with WADA's instructions. During the removal of Samples, WADA shall be responsible for maintaining proper Sample chain of custody documentation and the safety and integrity of the Samples until receipt by the Laboratory(-ies) selected by WADA.
- iii. WADA may also require that the <u>Laboratory</u> transfer the <u>Samples</u>. In such situations, the <u>Laboratory</u> shall be responsible for maintaining proper <u>LCOC</u> documentation for all transferred <u>Samples</u> and the safety and integrity of the <u>Samples</u> until receipt by the receiving <u>Laboratory</u>(ies).
- b) Removal of Samples for Laboratory Quality Assessment

WADA may also direct the reanalysis of de-identified Samples, which have met the conditions described in Article 5.3.8.2, for purposes of <u>Laboratory</u> Quality Assessment and education, including the implementation of a system of transfer of Samples between <u>Laboratories</u>. In this regard, the number of Samples directed by WADA for reanalysis may vary.

[Comment to Article 6.1.3 b): A transfer of Samples between <u>Laboratories</u> shall apply only to Samples collected by ADOs or DTPs acting on behalf of ADOs.]



## 6.1.4 WADA Laboratory Monitoring and Assessment during a Major Event

WADA may choose, at its sole discretion, to have one (1) or more observer(s) in the <u>Laboratory</u> during the <u>Major Event</u> as a member(s) of the <u>Independent Observer Program</u>. The <u>Laboratory</u> Director and staff shall provide full cooperation and access to the WADA observer(s).

*WADA*, in conjunction with the *MEO* (or *DTP* delegated to undertake *Doping Control* responsibilities for the <u>Major Event</u>), may submit double-blind <u>EQAS</u> samples to the <u>Laboratory</u>. The satisfactory analysis of the double-blind <u>EQAS</u> samples is a mandatory requirement for the performance of <u>Analytical Testing</u> during a Major *Event* (see also Article 4.3.1.2).

# 6.2 Evaluation of Laboratory Nonconformities

The WADA system of Laboratory <u>EQAS</u> and routine <u>Analytical Testing</u> performance evaluation has been developed with the objective of setting a transparent and balanced evaluation of <u>Laboratory</u>, <u>Probationary laboratory</u> and <u>ABP Laboratory</u> operations. It is based on the principle of proportionality and is focused on improving <u>Analytical Testing</u> capabilities and, in the case of <u>Probationary laboratories</u>, their readiness for obtaining WADA accreditation. It is ultimately aimed at strengthening, and maintaining confidence in, the anti-doping Laboratory system for the benefit of clean Athletes.

Laboratories shall implement remedial actions when any aspect in the conduct of Laboratory activities does not conform with the established procedures and requirements of the ISO/IEC 17025 (or ISO/IEC 15189, if applicable, for an <u>ABP Laboratory</u>), the ISL, or its associated ISL *TDs* and ISL *TLs*. Where applicable, Laboratories should also consider implementing remedial actions to address deviations from recommendations of best practice incorporated in <u>LGs</u> or <u>TNs</u>.

For full details on the *WADA* Laboratory Performance Evaluation Procedures, including the classification of nonconformities, the process of review of Laboratory Corrective Action(s) to remedy nonconformities, the evaluation of False *AAFs* and False Negative Findings, and the *WADA* Point Scale System, refer to the ISL *TD* PERF.



# 7.0 Laboratory Disciplinary Procedures

WADA shall regularly review the compliance of Laboratories with the mandatory requirements listed in the ISL and related ISL TDs and ISL TLs. In addition, WADA shall also conduct an annual review of EQAS results and of relevant routine Analytical Testing issues reported to WADA by stakeholders to assess the overall performance of each Laboratory and to decide its accreditation or ABP approval status.

Compliance with all the requirements established in Articles 4.1.4.2 and 4.2.3.2, including satisfactory performance by a Laboratory in the <u>EQAS</u> and in routine <u>Analytical Testing</u>, as determined by *WADA*, is a critical requirement for the maintenance of the Laboratory's *WADA* accreditation or *ABP* approval, respectively.

### 7.1 Withdrawal of WADA Accreditation

A <u>Laboratory</u>'s *WADA* accreditation may be suspended or revoked, or subject to an <u>ATR</u>, whenever the <u>Laboratory</u> fails to comply with the ISL and/or ISL *TD*s and/or ISL *TL*s, or where the <u>Suspension</u>, <u>Revocation</u> or <u>ATR</u> is otherwise required in order to protect the World Anti-Doping Program (e.g., integrity of the *Samples*, the <u>Analytical Testing</u> process or the interests of the Anti-Doping Community) – see also ISL *TD* PERF.

### 7.1.1 Analytical *Testing* Restriction or Suspension of *WADA* Accreditation

# 7.1.1.1 <u>Laboratory</u> Noncompliances that May Lead to an <u>Analytical</u> <u>Testing Restriction</u> or <u>Suspension</u> of *WADA* Accreditation

The <u>Lab EAG</u> shall recommend an <u>ATR</u> or the <u>Suspension</u> of a <u>Laboratory</u>'s *WADA* accreditation based on, but not limited to, the following noncompliance(s):

- a) Noncompliance(s) with the ISL Code of Ethics.
- b) Suspension, or withdrawal of ISO/IEC 17025 accreditation.
- c) Accumulation of the maximum allowed number of points for the <u>EQAS</u> and/or <u>Analytical Testing</u>, as determined by the application of the Points Scale Table described in the ISL *TD* PERF.
- d) Reporting of a False AAF with Consequences for an Athlete.
- e) Failure to establish and/or maintain administrative and operational independence as described in Article 4.1.4.2.5.
- f) Repeated reporting of False *AAFs* and/or False <u>Negative</u> Findings.

[Comment 1 to Article 7.1.1.1 f): <u>Lab EAG</u> recommendations for imposition of an <u>ATR</u> or <u>Suspension</u> of a <u>Laboratory</u>'s WADA accreditation are made in consideration of the number of false analytical findings reported by the <u>Laboratory</u>, irrespective of the total number of points accumulated during this period (i.e., after consideration of any applicable point deductions) or whether the Laboratory has satisfactorily corrected the noncompliances.]



- i. The reporting of two (2) or more independent False *AAFs* in the <u>EQAS</u> per twelve (12)-month period, or
- The reporting of three (3) or more independent False AAFs, including <u>EQAS</u> and routine <u>Analytical Testing</u>, per twelve (12)-month period, or
- iii. The reporting of three (3) or more independent False Negative Findings in the EQAS per twelve (12)-month period, or
- iv. The reporting of four (4) or more independent False <u>Negative</u> <u>Findings</u>, including <u>EQAS</u> and routine <u>Analytical *Testing*</u>, per twelve (12)-month period, or
- v. Any combination of four (4) or more independent False *AAFs* and False <u>Negative Findings</u>, including <u>EQAS</u> and routine <u>Analytical Testing</u>, per twelve (12)-month period.

[Comment 2 to Article 7.1.1.1 f): Noncompliant analytical findings, as detailed above, are determined to be independent, if produced by different and unrelated root causes (based on a satisfactory <u>RCA</u> investigation), as determined by the <u>Lab EAG</u>.]

- g) Failure to implement an ISL *TD* or ISL *TL* by the effective date without prior approval by *WADA*.
- h) Failure to comply with any of the requirements or standards listed in the ISL and/or ISL *TD*s and/or ISL *TL*s.
- i) Serious and repeated noncompliances with results reporting timelines (e.g., frequent significant delays in meeting the recommended reporting deadline without informing the responsible <u>TA(s)</u> or based on invalid reasons such as noncompliances with the implementation of mandatory requirements of the ISL, ISL *TD*s or ISL *TL*s) see also Article 5.3.6.4 c).
- j) Failure to take appropriate Corrective Action after an unsatisfactory performance during routine <u>Analytical Testing</u> or in a blind <u>EQAS</u> or double-blind <u>EQAS</u> round.
- k) Failure to take appropriate Corrective Actions, within a reasonable timeframe (as determined by WADA), for ISL and/or ISL TD and/or ISL TL noncompliance(s) identified from WADA <u>Laboratory</u> Assessment(s).
- I) Failure to analyze the minimum number of *Samples* indicated in Article 4.1.4.2.8.
- m) Failure to cooperate with *WADA* or the relevant <u>TA</u> or <u>RMA</u> in providing documentation.



- n) <u>Laboratory</u> staff and/or management issues, including but not limited to:
  - Major changes in senior <u>Laboratory</u> management positions (e.g., <u>Laboratory</u> Director, Certifying Scientist(s), Quality Manager) without proper and timely notification to *WADA*.
  - Failure to appoint a <u>Laboratory</u> Director or other senior management positions (e.g., Quality Manager) within a reasonable timeline.
  - iii. Failure to guarantee the competence and/or proper training of scientific staff including, for example, the qualification of analysts as Certifying Scientists (see Article 5.2.2.4).
  - iv. Significant loss or lack of experienced staff (e.g., Certifying Scientists) that affects, as determined by WADA, the <u>Laboratory</u>'s ability to ensure the full reliability and accuracy of <u>Analytical Testing</u> and reporting of test results.
- o) Failure to implement and document adequate R&D and Sharing of Knowledge activities.
- p) Loss of sufficient <u>Laboratory</u> support and resources that affects the quality and/or viability of the <u>Laboratory</u>, as determined by *WADA*.
- q) A high number of major noncompliance(s) with the ISL and/or ISL TDs and/or ISL TLs identified during WADA <u>Laboratory</u> Assessments which demonstrate an unacceptable risk in the full reliability and accuracy of <u>Analytical Testing</u> and the accurate reporting of test results by the <u>Laboratory</u>.
- r) Failure to cooperate in a *WADA* enquiry in relation to the activities of the <u>Laboratory</u>.

### 7.1.1.2 <u>Suspension</u> of Accreditation and <u>Analytical Testing Restriction</u>

Upon recommendation by the <u>Lab EAG</u>, the Chair of the *WADA* Executive Committee may suspend a <u>Laboratory</u>'s *WADA* accreditation or impose an <u>ATR</u> against a Laboratory in cases of major noncompliance(s) with the ISL and/or ISL *TD*s and/or ISL *TL*s based on the <u>Laboratory</u>'s performance during the <u>EQAS</u> and/or during routine <u>Analytical Testing</u> (see Article 7.1.1.1).

Unless otherwise determined by *WADA*, a <u>Laboratory</u>'s *WADA* accreditation shall be subject to a <u>Suspension</u>, and not to an <u>ATR</u>, when the sanction imposed on the <u>Laboratory</u> impacts <u>Analytical Methods</u> or target <u>Analytes</u> that are included in the <u>Laboratory</u>'s standard *IC* or *OOC* <u>Analytical Testing</u> menus, because it would affect the analysis of all respective urine and/or blood *Samples* received by the <u>Laboratory</u>.



[Comment to Article 7.1.1.2: If WADA determines that the noncompliance(s) leading to a <u>Suspension</u> or <u>ATR</u> does not affect the <u>Laboratory</u>'s ability to analyze whole blood Samples for the Markers of the Hematological Module of the ABP or to operate as an <u>APMU</u>, then the <u>Laboratory</u> may, at WADA's discretion, continue operating in such a capacity. In such cases, WADA shall inform the <u>Laboratory</u> accordingly.]

## 7.1.1.3 Cessation of Analytical Testing

If a <u>Laboratory</u> has reported a False *AAF* with *Consequences* for an *Athlete*, the <u>Laboratory</u> shall immediately cease all affected analytical activities and inform its customers. The <u>Laboratory</u> shall implement satisfactory Corrective Action(s) to resolve the nonconformity within a reasonable period after notification of the False *AAF* (see ISL *TD* PERF).

- a) If the nonconformity is satisfactorily resolved within the established timeframe, WADA nevertheless reserves the right to send extra EQAS samples (at the Laboratory's expense) and/or perform an Assessment of the Laboratory (also at the Laboratory's expense) before resuming Analytical Testing, at WADA's discretion, and shall use best efforts to notify the Laboratory of such decision in an expedited manner. WADA, at its discretion, may also give public notice of the Laboratory's nonconformity, as well as inform stakeholders of the Laboratory's satisfactory resolution of the nonconformity through the implementation of adequate preventive and corrective actions.
- b) If the nonconformity is not satisfactorily resolved within the established timeframe, as determined by the <u>Lab EAG</u>, then the <u>Lab EAG</u> shall recommend the <u>ATR</u> or <u>Suspension</u> of the <u>Laboratory</u>, as applicable. The <u>Laboratory</u> cessation of <u>Analytical Testing</u> shall remain effective until the later of:
  - i. The date of the final decision by the Chair of the *WADA* Executive Committee, or
  - ii. The date of the final decision rendered by CAS should the Laboratory appeal the sanction.

In this instance:

a) No right of challenge to the Disciplinary Committee (DC)

The <u>Laboratory</u> has no right to challenge to the DC the <u>Lab EAG</u>'s recommendation to impose an <u>ATR</u> or a <u>Suspension</u> against the <u>Laboratory</u> pursuant to this Article 7.1.1.3.

b) Right of appeal to CAS

The <u>Laboratory</u> may appeal to *CAS* (in accordance with Article 7.1.5) the decision by the Chair of the *WADA* Executive Committee to impose an <u>ATR</u> or a <u>Suspension</u> pursuant to this Article 7.1.1.3.



This right of appeal to CAS shall not apply if the final decision rendered by the Chair of the *WADA* Executive Committee is based on the <u>Laboratory</u>'s acceptance of the recommendation for an ATR or a Suspension.

# 7.1.1.4 <u>Analytical Testing Restriction</u> and <u>Suspension</u> of Accreditation – No Disciplinary Proceedings

If a <u>Laboratory</u> has accumulated the maximum allowed number of points for the <u>EQAS</u> and/or <u>Analytical Testing</u> (as per the Points Scale Table described in the ISL *TD* PERF), the <u>Lab EAG</u> shall make a recommendation to the Chair of the *WADA* Executive Committee that the <u>Laboratory</u> be subject to an <u>ATR</u> or <u>Suspension</u>, as applicable and as determined by the <u>Lab EAG</u>.

a) No right of challenge to the Disciplinary Committee

The <u>Laboratory</u> has no right to challenge the <u>Lab EAG</u>'s recommendation to the DC to impose an <u>ATR</u> or a <u>Suspension</u> against the <u>Laboratory</u> pursuant to this Article 7.1.1.4.

b) Right of appeal to CAS

The <u>Laboratory</u> may appeal to *CAS* (in accordance with Article 7.1.5) the decision by the Chair of the *WADA* Executive Committee to impose an <u>ATR</u> or a <u>Suspension</u> pursuant to this Article 7.1.1.4.

This right of appeal to CAS shall not apply if the final decision rendered by the Chair of the WADA Executive Committee is based on the <u>Laboratory</u>'s acceptance of the recommendation for an <u>ATR</u> or a <u>Suspension</u>.

# 7.1.1.5 <u>Analytical Testing Restriction</u> and <u>Suspension</u> of Accreditation – Disciplinary Proceedings

The <u>Lab EAG</u> may also recommend to the Chair of the *WADA* Executive Committee that a <u>Laboratory</u> be subject to an <u>ATR</u> or a <u>Suspension</u> of the <u>Laboratory</u>'s *WADA* accreditation even if the <u>Laboratory</u> has not attained the maximum number of points detailed in the Points Scale Table in the ISL *TD* PERF, but where the <u>Laboratory</u>'s other <u>Analytical Testing</u> failure(s) and/or other identified nonconformity(-ies) (as described in Article 7.1.1.1) otherwise justifies that such action be taken to ensure the full reliability and accuracy of Analytical *Testing* and the accurate reporting of test results.

a) Prior to recommending a <u>Laboratory Suspension</u> or an <u>ATR</u> to the Chair of the *WADA* Executive Committee, *WADA* shall notify the



<u>Laboratory</u> of the <u>Lab EAG</u>'s proposed recommendation. The *WADA* notice letter shall <sup>26</sup>:

- Offer the <u>Lab oratory</u> the opportunity to hold a session with the <u>Lab EAG</u> (upon request by the <u>Laboratory</u>) to discuss the <u>Laboratory</u>'s noncompliances on which the sanction recommendation is based.
- ii. If the <u>Laboratory</u> does not request a session, the <u>Laboratory</u> shall have the opportunity to either accept the <u>Lab EAG</u>'s recommendation for the <u>Suspension</u> or <u>ATR</u>, or to accept the initiation of Disciplinary Proceedings in accordance with Article 7.1.3.
- b) If the <u>Laboratory</u> does request a session with the <u>Lab EAG</u>, the <u>Laboratory</u> may provide further clarifications or evidence of successfully implemented Corrective Actions addressing the nonconformities to prevent their recurrence in the future.
  - i. At the end of the discussion session, the <u>Lab EAG</u> shall determine if the explanations and/or additional evidence provided by the <u>Laboratory</u> are sufficient to rescind the proposed recommendation for <u>Suspension</u> of the <u>Laboratory</u>'s WADA accreditation or for imposition of an ATR.
  - ii. The <u>Lab EAG</u> shall not recommend a <u>Suspension</u> or <u>ATR</u> if it determines that the explanations and/or additional evidence provided by the <u>Laboratory</u> during the discussion session demonstrate that satisfactory Corrective Actions have been implemented to address the nonconformities.
  - iii. If following the discussion session, the <u>Lab EAG</u> determines that the explanations and/or additional evidence provided by the <u>Laboratory</u> are not sufficient to rescind the proposed recommendation for <u>Suspension</u> or for imposition of an <u>ATR</u>, and the <u>Laboratory</u> does not accept the recommendation for the <u>Suspension</u> or <u>ATR</u>, Disciplinary Proceedings shall be initiated and conducted in accordance with Article 7.1.3. In such cases, the <u>Lab EAG</u> may issue a recommendation to the Chair of the *WADA* Executive Committee that the Laboratory:
    - Continue its <u>Analytical Testing</u> activities pending the outcome of the Disciplinary Proceedings, or
    - To immediately cease affected <u>Analytical Testing</u> activities pending the outcome of the Disciplinary Proceedings. In such cases, a decision by the Chair of the WADA

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These provisions do not apply in cases of <u>Suspension</u> or <u>ATR</u> pursuant due to a reported False *AAF* with *Consequences* for an *Athlete* (see Article 7.1.1.3) or when the <u>Laboratory</u> has accumulated the maximum allowed number of points for the <u>EQAS</u> and/or <u>Analytical Testing</u> (see Article 7.1.1.4).



Executive Committee to impose a <u>Provisional Laboratory</u> <u>Suspension</u> or a Provisional <u>ATR</u>, as applicable, shall not be subject to appeal by the <u>Laboratory</u>.

However, should the <u>Laboratory</u> be immediately subject to a <u>Provisional Laboratory Suspension</u> or a Provisional <u>ATR</u>, the Disciplinary Proceedings before the DC should be conducted within forty-five (45) days of the date when the <u>Provisional Laboratory Suspension</u> or Provisional <u>ATR</u> was imposed.

# c) Right of appeal to CAS:

If the outcome of the Disciplinary Proceedings leads to an <u>ATR</u> or a <u>Suspension</u>, the <u>Laboratory</u> may appeal the decision of the Chair of the *WADA* Executive Committee to *CAS* (in accordance with Article 7.1.5).

This right of appeal to CAS shall not apply if the final decision rendered by the Chair of the WADA Executive Committee is based on the <u>Laboratory</u>'s acceptance of the recommendation for an <u>ATR</u> or a <u>Suspension</u>.

d) The imposition of an <u>ATR</u> or the <u>Suspension</u> of a <u>Laboratory</u>'s WADA accreditation should not imply the automatic withdrawal of its ISO/IEC 17025 accreditation. The status of the <u>Laboratory</u>'s ISO/IEC 17025 accreditation is to be independently assessed by the relevant Accreditation Body (AB).

### 7.1.2 Revocation of WADA Accreditation

The WADA Executive Committee shall revoke a <u>Laboratory</u>'s WADA accreditation if it determines that <u>Revocation</u> is necessary to ensure the full reliability and accuracy of <u>Analytical Testing</u> and the accurate reporting of analytical test results.

# 7.1.2.1 <u>Laboratory</u> Noncompliances Leading to <u>Revocation</u> of *WADA*Accreditation

The <u>Lab EAG</u> shall recommend the <u>Revocation</u> of a <u>Laboratory</u>'s *WADA* accreditation based on, but not limited to, the following noncompliance(s):

- a) A serious or repeated violation(s) of the ISL Code of Ethics.
- b) Conviction of any key personnel for any criminal offence that is determined by *WADA* to impact the operations of the Laboratory.
- c) Repeated suspensions of ISO/IEC 17025 accreditation or <u>Suspensions</u> of WADA accreditation or repeated impositions of ATRs against the Laboratory.



- d) Repeated reporting of False AAFs with Consequences for Athletes.
  - [Comment to Article 7.1.2.1 d): The repeated reporting of False AAFs with Consequences for an Athlete(s) shall lead to the <u>Revocation</u> of the <u>Laboratory</u>'s WADA accreditation, irrespective of whether those findings were independent as described in the Comment 2 to Article 7.1.1.1 f).]
- e) Repeated accumulation of the maximum allowed number of points for the <u>EQAS</u> and/or <u>Analytical Testing</u> as determined by the application of the Points Scale Table described in the ISL *TD* PERF.
- f) Repeated reporting of False AAFs or repeated failure to implement satisfactory Corrective Action(s) after the reporting of a False AAF.
- g) Repeated reporting of False <u>Negative Findings</u> or repeated failure to implement satisfactory Corrective Action(s) after the reporting of False <u>Negative Finding(s)</u>.
  - [Comment to Articles 7.1.2.1 f) and g): <u>Lab EAG</u> recommendations for <u>Revocation</u> of a <u>Laboratory</u>'s WADA accreditation are made in consideration of the number of false AAFs and/or False <u>Negative Findings</u> reported by the <u>Laboratory</u>, irrespective of the total number of points accumulated during this period (i.e., after consideration of any applicable point deductions), as well as to whether the <u>Laboratory</u> has satisfactorily corrected the noncompliances.]
- h) Failure to correct a noncompliance with any of the requirements or standards listed in the ISL and/or ISL *TD*s and/or ISL *TL*s by the end of the initial or extended <u>Suspension</u> period in accordance with Article 7.3.
- i) Repeated failure to comply with the ISL and/or ISL TDs and/or ISL TLs, or repeated failure to implement satisfactory Corrective Action(s) within a reasonable timeframe, as determined by WADA, following ISL and/or ISL TD and/or ISL TL noncompliance(s) identified from WADA Laboratory Assessment(s).
- j) Serious <u>Laboratory</u> noncompliance(s) with the ISL and/or ISL *TD*s and/or ISL *TL*s identified, for example, during *WADA* <u>Laboratory</u> Assessments, by documented customer complaints or through other enquiries or investigations conducted by *WADA*.
- k) Repeated failure to implement satisfactory Corrective Action(s) following unsatisfactory performance either in routine <u>Analytical Testing</u> or in a blind EQAS or double-blind EQAS round.
- I) Repeated failure to analyze the minimum number of *Samples* indicated in Article 4.1.4.2.8.
- m) Continuous and serious <u>Laboratory</u> staff and/or management issues (e.g., continuous turnover of qualified staff affecting



<u>Laboratory</u> expertise and competence, inadequate training, repeated failure to train and qualify an appropriate number of analysts as Certifying Scientists).

- n) Failure to cooperate with *WADA* or any relevant <u>TA</u> or <u>RMA</u> during a <u>Suspension</u> or <u>ATR</u> period.
- o) Analysis of *Samples* from *Signatories* in violation of a <u>Suspension</u> or ATR decision.
- p) Repeated and/or continuous failure to cooperate in any *WADA* inquiry in relation to the activities of the Laboratory.
- q) Repeated failure to implement and document adequate R&D and Sharing of Knowledge activities.
- r) Continuous failure to establish/maintain administrative and operational independence (see Article 4.1.4.2.5), as determined by *WADA*.
- s) Loss of support which significantly affects the quality and/or viability of the <u>Laboratory</u>, and/or
- t) Any other cause that materially affects the ability of the <u>Laboratory</u> to ensure the full reliability and accuracy of <u>Analytical Testing</u> and the accurate reporting of test results.

# 7.1.2.2 <u>Revocation</u> Procedures - <u>Laboratory</u> Not Under <u>Analytical</u> *Testing* Restriction or Suspension

- a) Prior to recommending the <u>Revocation</u> of a <u>Laboratory</u>'s <u>WADA</u> Accreditation to the <u>WADA</u> Executive Committee, <u>WADA</u> shall notify the <u>Laboratory</u> of the <u>Lab EAG</u>'s proposed recommendation.
- b) Upon request by the <u>Laboratory</u>, *WADA* shall offer the <u>Laboratory</u> the opportunity to hold a session with the <u>Lab EAG</u> to discuss the <u>Laboratory</u>'s noncompliance(s) on which the Revocation recommendation would be based.

During this session, the <u>Laboratory</u> may provide further clarification(s) or evidence of successfully implemented Corrective Actions addressing the nonconformities to prevent their recurrence in the future.

If the <u>Laboratory</u> does not request a session, the <u>Lab EAG</u> shall offer the <u>Laboratory</u> the opportunity to accept the <u>Lab EAG</u>'s recommendation for the <u>Revocation</u> or to initiate Disciplinary Proceedings in accordance with Article 7.1.3.



- c) At the end of the discussion session, the <u>Lab EAG</u> shall determine if the explanations and/or additional evidence provided by the <u>Laboratory</u> are sufficient to rescind the recommendation for <u>Revocation</u> of the <u>Laboratory</u>'s <u>WADA</u> accreditation.
  - i. The <u>Lab EAG</u> shall withdraw the recommendation for <u>Revocation</u>, or any other <u>Laboratory</u> sanction, if it determines that the explanations and/or additional evidence provided by the <u>Laboratory</u> during the discussion session demonstrate that adequate and satisfactory Corrective Actions have been implemented to address the nonconformities and avoid their recurrence in the future.
    - WADA nevertheless reserves the right to send extra <u>EQAS</u> samples (at the <u>Laboratory</u>'s expense) and/or perform an Assessment of the <u>Laboratory</u> (also at the <u>Laboratory</u>'s expense) before resuming <u>Analytical Testing</u>, at WADA's discretion, and shall use best efforts to notify the <u>Laboratory</u> of such a decision in an expedited manner.
  - If, following the discussion session, the Lab EAG determines that the explanations and/or additional evidence provided by the Laboratory are not sufficient to rescind the recommendation for Revocation, the Lab EAG shall maintain the recommendation for Revocation to the WADA Executive Committee and, additionally, recommend to the Chair of the WADA Executive Committee that the Laboratory's WADA accreditation be immediately subject to a Provisional Laboratory Suspension pending the outcome of the Disciplinary Proceedings conducted pursuant to Article 7.1.3. In such cases, a decision by the Chair of the WADA Executive Committee to impose a Provisional Laboratory Suspension against the Laboratory shall not be subject to appeal by the Laboratory. However, should the Laboratory be immediately subject to a Provisional Laboratory Suspension, the Disciplinary Proceedings before the DC should be conducted within forty-five (45) days of the date when the Provisional Laboratory Suspension of the Laboratory's WADA accreditation was imposed.
- d) Right of challenge to the Disciplinary Committee
  - If the <u>Laboratory</u> does not accept the <u>Lab EAG</u>'s recommendation for <u>Revocation</u>, the <u>Laboratory</u> may challenge the <u>Lab EAG</u>'s recommendation to the DC and Disciplinary Proceedings shall be conducted in accordance with Article 7.1.3.



# e) Right to appeal to CAS

A <u>Laboratory</u> may appeal a decision by the *WADA* Executive Committee to revoke its *WADA* accreditation to *CAS* in accordance with Article 7.1.5.

This right of appeal shall not apply if the final decision rendered by the Chair of the *WADA* Executive Committee is based on the <u>Laboratory</u>'s acceptance of the recommendation for <u>Revocation</u>.

# 7.1.2.3 <u>Revocation Procedures – Laboratory Under Analytical Testing</u> Restriction or Suspension

a) If the <u>Laboratory</u> is already subject to an <u>ATR</u> or <u>Suspension</u> at the commencement of <u>Revocation</u> procedures, <u>WADA</u> shall notify the <u>Laboratory</u> of the <u>Lab EAG</u>'s recommendation for <u>Revocation</u> with an option for the <u>Laboratory</u> to either accept or challenge the terms of the recommendation to the DC, without an opportunity for the <u>Laboratory</u> to hold a discussion session with the <u>Lab EAG</u>.

*WADA* shall notify the Executive Committee of the <u>Lab EAG</u>'s recommendation for Revocation.

b) Right of challenge to the Disciplinary Committee

If the <u>Laboratory</u> does not accept the <u>Lab EAG</u>'s recommendation for <u>Revocation</u>, Disciplinary Proceedings shall be conducted in accordance with Article 7.1.3.

c) Right to appeal to CAS:

A <u>Laboratory</u> may appeal a decision by the *WADA* Executive Committee to revoke its *WADA* accreditation to *CAS* in accordance with Article 7.1.5. This right of appeal to *CAS* shall not apply if the final decision rendered by the *WADA* Executive Committee is based on the <u>Laboratory</u>'s acceptance of the <u>Lab EAG</u>'s recommendation for <u>Revocation</u>.



### 7.1.3 Disciplinary Proceedings

If a <u>Laboratory</u> challenges the <u>Lab EAG</u>'s recommendation for an <u>ATR</u> or <u>Suspension</u> (as per Article 7.1.1.5), or recommendation for <u>Revocation</u> (as per Articles 7.1.2.2 or 7.1.2.3), *WADA* shall constitute an impartial DC in accordance with Article 1 of the Procedural Rules (see ISL Annex A) to conduct disciplinary proceedings ("Disciplinary Proceedings"). The DC shall be responsible for conducting Disciplinary Proceedings in accordance with the Procedural Rules.

In such circumstances, *WADA* shall provide the DC with a case file, which shall include the relevant documentation related to the <u>ATR</u>, <u>Suspension</u> or <u>Revocation</u> recommendation. The <u>Laboratory</u> shall be permitted to make written submissions and provide any supporting documents or evidence in accordance with Article A-3 of the Procedural Rules (ISL Annex).

The DC shall issue a recommendation to the Chair of the WADA Executive Committee or, where applicable (e.g., in the case of a Revocation), to the WADA Executive Committee, regarding the action(s) to be taken regarding the Laboratory's WADA accreditation in accordance with the requirements and procedure described in Article A-7 of the Procedural Rules (ISL Annex).

[Comment to Article 7.1.3: For the avoidance of doubt, and as indicated in Articles 7.1.1.3 and 7.1.1.4, Disciplinary Proceedings shall not be conducted pursuant to this Article 7.1.3 in situations where the <u>Lab EAG</u> recommends the imposition of an <u>ATR</u> or the <u>Suspension</u> of a <u>Laboratory</u>'s WADA accreditation due to the <u>Laboratory</u>'s failure to satisfactorily resolve a nonconformity(-ies) that led to the reporting of a False AAF with Consequence(s) for an Athlete within the established timeframe, or if a <u>Laboratory</u> accumulated the maximum allowed number of points for the <u>EQAS</u> and/or <u>Analytical Testing</u> (as determined by the application of the Points Scale Table described in the ISL TD PERF). Instead, and only in the aforementioned circumstances, the <u>Laboratory</u> may appeal any decision of the Chairman of the WADA Executive Committee to impose an <u>ATR</u> or to suspend the <u>Laboratory</u>'s WADA accreditation directly to CAS in accordance with Article 7.1.5.]

### 7.1.4 Notification of Decision

Upon completion of the procedures indicated in Article 7.1.3, or the exceptions described in Articles 7.1.1.3 and 7.1.1.4, as applicable, and in accordance with the timelines indicated in Article A-7 of the Procedural Rules (ISL Annex), *WADA* shall provide the <u>Laboratory</u> with written notice of its decision regarding the status of the <u>Laboratory</u>'s *WADA* accreditation. This notice shall state the following:

- a) That the <u>Laboratory</u>'s *WADA* accreditation has been maintained (including warnings and/or conditions, if applicable), or
- b) That the <u>Laboratory</u>'s *WADA* accreditation has been suspended or revoked or that an <u>ATR</u> has been imposed against the <u>Laboratory</u>.

Such notice shall include:

- a) The reason(s) for Suspension or Revocation or the imposition of an ATR.
- b) The terms of the <u>Suspension</u>, <u>Revocation</u>, or <u>ATR</u>, and



c) The period of the <u>Suspension</u> or <u>ATR</u>, if applicable.

For proceedings conducted pursuant to Article 7.1.3, *WADA* shall also provide the <u>Laboratory</u> with a copy of the DC's recommendation.

### 7.1.5 Effective Date and Appeals

- a) A <u>Suspension</u> or <u>ATR</u> is effective immediately upon receipt of notification of the decision.
- b) A <u>Revocation</u> takes effect one (1) month after notification. The <u>Laboratory</u> shall remain under <u>Provisional Laboratory Suspension</u> or <u>Suspension</u> until such a time when the <u>Revocation</u> becomes effective or pending the outcome of any possible appeal of the <u>Revocation</u> decision by the <u>Laboratory</u>.
- c) A <u>Laboratory</u> may appeal a decision by *WADA* to revoke or suspend its *WADA* accreditation, or to impose an <u>ATR</u>, to *CAS* in accordance with *Code* Article 13.7. The <u>Laboratory</u> shall have twenty-one (21) days from the date of receipt of the decision from *WADA* to file an appeal to *CAS*.

### 7.1.6 Public Notice

- a) WADA shall publicly announce a change in a <u>Laboratory</u>'s accreditation status on its website as soon as the <u>Laboratory</u> is notified by WADA of its decision. In cases of <u>Laboratory Revocation</u>, the public notice shall specify that the <u>Laboratory</u> shall remain under <u>Provisional Laboratory Suspension</u> or <u>Suspension</u> until the date when the <u>Revocation</u> becomes effective, as determined in Article 7.1.5.
- b) WADA shall also indicate the terms and length of the <u>Suspension</u> or the <u>ATR</u>. In the case of an <u>ATR</u>, the relevant impacted <u>Test Method</u> or Prohibited Substance/Prohibited Method class shall be detailed.
- c) WADA's website shall be updated regarding a <u>Laboratory</u>'s accreditation status when the <u>Laboratory</u>'s WADA accreditation is reinstated following a <u>Suspension</u> or when an <u>ATR</u> is lifted.



# 7.2 Consequences of Suspended or Revoked Accreditation or <u>Analytical Testing</u> Restriction

During a <u>Suspension</u> or <u>ATR</u> period, the <u>Laboratory</u> shall continue to participate in the <u>WADA EQAS</u> program. <u>WADA</u> may require the <u>Laboratory</u> to analyze additional blind <u>EQAS</u> samples and/or perform a <u>Laboratory</u> Assessment, at any time and at the expense of the <u>Laboratory</u>, to evaluate the <u>Laboratory</u>'s status.

### 7.2.1 Analytical Testing Restriction

If WADA determines that the noncompliance(s) are limited to a class of *Prohibited Substances* or *Prohibited Methods* or to a specific <u>ATP</u>, which are not included in the standard <u>Analytical Testing</u> menu for *IC* or *OOC Samples*, *WADA* may impose an <u>ATR</u> for that class of *Prohibited Substances* or *Prohibited Methods* or for the specific <u>ATP</u> in which the noncompliance(s) occurred.

Following the <u>ATR</u> notification by *WADA*, the <u>Laboratory</u> shall:

- a) Inform its customers of the imposed ATR.
- b) Immediately cease all analyses employing the affected ATP(s).
- c) Subcontract the affected analyses to another <u>Laboratory</u>(-ies), in consultation with the relevant <u>TA</u>, during the period of the <u>ATR</u>, as provided in Article 5.2.6.
- d) Transfer <sup>27</sup> the following *Samples* ("A" and "B" *Samples*) in the <u>Laboratory</u>'s custody, which may be affected by the <u>ATR</u> conditions (i.e., involving the analysis of the same class of *Prohibited Substances* or *Prohibited Methods* and/or the application of the <u>ATP(s)</u> subjected to the <u>ATR)</u> to a subcontracted <u>Laboratory(-ies)</u> for the performance of the "A" and, if needed, the "B" <u>CP(s)</u> (unless otherwise instructed by *WADA*). The <u>Laboratory</u> shall inform *WADA* of the relevant <u>TA(-ies)</u> and the subcontracted <u>Laboratory(-ies)</u>.
  - i. Samples which had been previously reported as an AAF.
  - ii. Samples with confirmed but not reported AAF or ATF.
  - iii. Samples with non-confirmed PAAF(s).
  - iv. Samples with ongoing ITP or CP analysis.
- e) If the <u>ATR</u> was caused by the reporting of False <u>Negative Finding(s)</u>, and further investigation reveals that other <u>Sample(s)</u>, reported as <u>Negative Finding(s)</u> and still stored in the <u>Laboratory</u>, may have been impacted, the Laboratory shall inform the TA and <u>WADA</u>.

The <u>Laboratory</u> under <u>ATR</u> shall contact the relevant <u>TA(-ies)</u> to arrange for the transfer of the relevant <u>Samples</u> to subcontracted <u>Laboratory(-ies)</u>, chosen by the <u>TA</u>, within thirty (30) days of being notified of the <u>ATR</u> decision. All costs associated with the transfer of <u>Samples</u> shall be borne by the Laboratory under ATR.



In such cases, both the "A" and "B" containers of the relevant *Samples* shall be transferred to a subcontracted <u>Laboratory</u>(-ies) for <u>Further Analysis</u>, as determined by *WADA*. The <u>Further Analysis</u> may be limited to the class of *Prohibited Substances* and/or *Prohibited Methods* or to the <u>ATP(s)</u> that were associated with the <u>Negative Finding(s)</u>, as determined by *WADA*.

### 7.2.2 <u>Suspension</u> of *WADA* Accreditation

A <u>Laboratory</u> whose *WADA* accreditation has been suspended is ineligible to perform <u>Analytical Testing</u> of <u>Samples</u> for any <u>Signatory</u>. This provision does not apply when the noncompliance(s) that led to the <u>Suspension</u> does not impact on the analysis of the <u>Markers</u> of the Hematological Module of the <u>ABP</u>, as determined by <u>WADA</u>.

The <u>Laboratory</u> shall take the relevant steps following the notification of a <u>WADA Suspension</u> decision:

- a) Cease all <u>Analytical Testing</u> immediately.
- b) Inform *WADA* of the *Sample* codes and relevant <u>TA</u>(-ies) for all *Samples* in the <u>Laboratory</u>'s custody.
- c) Maintain all *Samples* in the <u>Laboratory</u>'s custody under proper <u>LCOC</u> and appropriate storage conditions.
  - The <u>Laboratory</u> shall not dispose of any *Sample* without the written approval of *WADA*. The <u>Laboratory</u> shall provide *WADA* with the *Sample* codes and relevant TA(-ies) for all *Samples* in storage.
- d) Irrespective of the cause that led to the <u>Suspension</u>, the <u>Laboratory</u> shall transfer the following *Samples* ("A" and "B") to a subcontracted <u>Laboratory</u>(ies) for the performance of the "A" (<u>ITP</u>(s) and <u>CP</u>(s), if needed) and "B" analysis (if requested), unless otherwise instructed by *WADA* <sup>28</sup>:
  - i. Samples with confirmed but not yet reported AAF or ATF.
  - ii. Samples with non-confirmed PAAFs.
  - iii. Samples which ongoing ITP or CP analysis.
  - iv. Samples which had been received at the <u>Laboratory</u> but had not been opened.

<sup>&</sup>lt;sup>28</sup> The suspended <u>Laboratory</u> shall contact the relevant <u>TA</u>(-ies) to arrange for the transfer of <u>Samples</u> to another <u>Laboratory</u>(-ies), chosen by the <u>TA</u>, within thirty (30) days of being notified of the <u>Suspension</u> decision. All costs associated with the transfer of <u>Samples</u> shall be borne by the <u>Laboratory</u> under Suspension.

Any additional costs of analysis to those previously agreed or already paid to the suspended <u>Laboratory</u> shall be borne by the <u>Laboratory</u> under <u>Suspension</u>. In the case of ISL Code of Ethics violation(s), the suspended <u>Laboratory</u> shall also reimburse the <u>TA</u> for the costs of reanalysis in another <u>Laboratory</u>. The suspended <u>Laboratory</u> shall inform *WADA* of such actions including providing the *Sample* code(s) and the identity of the relevant <u>TA</u>(-ies) and the chosen <u>Laboratory</u>(-ies).



## e) <u>Suspension</u> for Violation of the ISL Code of Ethics

The <u>Laboratory</u> shall transfer all *Samples* (both the "A" and "B" *Samples*) in the <u>Laboratory</u>'s custody to another <u>Laboratory</u>(-ies) chosen by the relevant <u>TA</u>(-ies).

### f) Suspension for Reporting of False AAF

The <u>Laboratory</u> shall transfer *Samples* previously reported as an *AAF*, which may have been affected by the False *AAF* condition (i.e., involving the same class of *Prohibited Substances* or *Prohibited Methods* analyzed with the same <u>CP</u>).

## g) <u>Suspension</u> for Reporting False <u>Negative Finding(s)</u>

- i. If Samples were undergoing <a href="ITP">ITP</a> analysis, or if the <a href="ITPs">ITPs</a> had been completed with negative results, but the results had not been reported, both the "A" and "B" Samples shall be transferred to another <a href="Laboratory">Laboratory</a>(ies) to reconduct the <a href="ITPs">ITPs</a> and, if needed, to perform the <a href="CP">CP</a>(s). These analyses may be applied for all the <a href="Prohibited Substances">Prohibited Methods</a> included in the requested <a href="Analytical Testing">Analytical Testing</a> menu or be limited to the class of <a href="Prohibited Substances">Prohibited Substances</a> and/or <a href="Prohibited Methods">Prohibited Methods</a> or to the <a href="ATP">ATP</a>(s) that were associated with the <a href="Negative Finding">Negative Finding</a>, as determined by <a href="WADA">WADA</a>.
- ii. If the <u>Laboratory</u>'s investigation reveals that other *Sample*(s) already reported as <u>Negative Finding</u>(s) may have been impacted (including *Sample*(s) that have been placed in long-term storage upon request by the <u>TA</u>, <u>RMA</u> or *WADA*), the <u>Laboratory</u> shall inform the <u>TA</u>, <u>RMA</u> (if different) and *WADA*. In such cases, both the "A" and "B" containers of the relevant *Sample*(s) shall be transferred to a subcontracted <u>Laboratory</u>(-ies) for <u>Further Analysis</u>. The <u>Further Analysis</u> may be applied for all the *Prohibited Substances* and *Prohibited Methods* included in the requested *Testing* menu or be limited to the class of *Prohibited Substances* and/or *Prohibited Methods* or to the <u>ATP</u>(s) that were associated with the <u>Negative Finding</u>(s), as determined by *WADA*.

### h) Suspension for Other Reasons

A <u>Laboratory</u> that has had its *WADA* accreditation suspended for reasons other than a violation of the ISL Code of Ethics or the reporting of False *AAF*(s) or False <u>Negative Finding</u>(s) shall take the following steps with the *Samples* in the <u>Laboratory</u>'s custody, unless otherwise instructed by *WADA*:

i. Samples for which <u>ITPs</u> had been completed with negative results, but results had not been reported:

The Sample(s) result shall be reported in ADAMS as Negative Finding(s). The Laboratory shall inform WADA, including the provision of the Sample codes and the identity of the relevant TA(-ies).



- ii. Samples, which had been reported as an AAF based on the "A" <u>CP</u> only: Should a "B" <u>CP</u> be requested during the <u>Suspension</u>, both "A" and "B" Samples shall be transferred to another <u>Laboratory</u>(-ies) for the "A" <u>CP</u>(s) to be repeated and to perform the "B" CP(s), if applicable.
- i) <u>Suspension</u> Related to the Analysis of the *Markers* of the Hematological Module of the *ABP*

If the <u>Suspension</u> concerns the analysis of the <u>Markers</u> of the Hematological Module of the <u>ABP</u>, whole blood <u>Samples</u> collected prior to the <u>Suspension</u> date may be analyzed by the <u>Laboratory</u>. The reporting of results for the relevant <u>Sample(s)</u> in <u>ADAMS</u> shall include a comment regarding the <u>Suspension</u> at the time of analysis so that the <u>TA</u> (or <u>RMA</u>, if different) / <u>APMU</u> can take this information into account during the <u>Results Management</u> process.

[Comment to Article 7.2.2 i): Due to the negative impact of time on the stability of the blood cells targeted for the analysis of the Markers of the Hematological Module of the ABP, it is not normally feasible to send the whole blood Samples to other <u>Laboratory</u>(-ies) for this analysis within an acceptable timeframe.]

### 7.2.3 Revocation of WADA Accreditation

- a) A laboratory whose *WADA* accreditation has been revoked is ineligible to perform <u>Analytical Testing</u> of Samples for any Signatory.
- b) The <u>LCOC</u> maintained by a revoked laboratory for stored *Samples* is valid until such time that arrangements can be made, in consultation with *WADA* and the associated <u>TA(-ies)</u>, for the transfer of the relevant *Samples* to a <u>Laboratory(-ies)</u>.
- c) A revoked laboratory shall arrange the transfer of *Samples* in the laboratory's custody to a <u>Laboratory</u>(-ies) chosen by the <u>TA</u>(-ies) or *WADA* within thirty (30) days of being notified of the decision to revoke its *WADA* accreditation <sup>29</sup>.
  - i. In such circumstances, the *Samples* to be transferred shall be selected by the <u>TA</u> or *WADA*. The laboratory transferring the *Samples* shall inform *WADA* and provide the relevant *Sample* codes and the identity of the relevant TA(-ies) and the chosen Laboratory(-ies).
  - ii. In addition, the revoked laboratory shall assist the relevant  $\overline{\text{TA}}(\text{-ies})$  with the transfer of the relevant Sample data and records to the

The revoked laboratory shall contact the relevant <u>TA(-ies)</u> to arrange for the transfer of <u>Samples</u> to a <u>Laboratory(-ies)</u>, chosen by the <u>TA</u>, within thirty (30) days of being notified of the <u>Revocation</u> decision. All costs associated with the transfer of <u>Samples</u> shall be borne by the laboratory subject to Revocation.

Any additional costs of analysis to those previously agreed or already paid to the revoked laboratory shall be borne by the laboratory subject to <u>Revocation</u>. In the case of ISL Code of Ethics violation(s), the revoked laboratory shall also reimburse the <u>TA</u> for the costs of reanalysis in a <u>Laboratory</u>. The revoked laboratory shall inform *WADA* of such actions including providing the *Sample* code(s) and the identity of the relevant TA(-ies) and the chosen Laboratory(-ies).



<u>Laboratory</u>(-ies) that have been selected to receive the *Samples* (see also Article 5.4.4).

- d) The revoked laboratory shall transfer all *Samples* in its custody for which the <u>Analytical Testing</u> has not been completed at the time of the <u>Revocation</u>. In addition, the laboratory shall consult <u>TA</u>(-ies) on whether additional *Samples* already analyzed and retained in the laboratory, for which the <u>TA</u> is the owner pursuant to Article 10.1 of the *IST*, shall also be transferred or disposed. Furthermore, *WADA* may also identify and request that *Samples* be transferred to another Laboratory(-ies).
- e) All costs associated with the transfer of *Samples* shall be covered by the revoked laboratory.

# 7.3 Extension of <u>Suspension</u> or <u>Analytical Testing Restriction</u>

- a) If a <u>Laboratory</u> has not satisfactorily corrected the noncompliance(s) that resulted in their <u>Suspension</u> or <u>ATR</u> or if *WADA* identifies any additional ISL and/or ISL *TD* and/or ISL *TL* noncompliance(s) during the initial <u>Suspension</u> or <u>ATR</u> period of six (6) months (for example, during a *WADA* <u>Laboratory</u> Assessment):
  - i. The <u>Laboratory</u>'s <u>Suspension</u> or <u>ATR</u> may be extended, or
  - ii. <u>Suspension</u> proceedings may be initiated (if the <u>Laboratory</u> was subject only to an <u>ATR</u>), or
  - iii. Revocation proceedings may be initiated, as determined by WADA.
- b) The <u>Suspension</u> or <u>ATR</u> period may be extended up to an additional six (6) months, if the <u>Laboratory</u> provides justifiable explanation(s), as determined by the <u>WADA</u>, in addressing the conditions to lift the <u>Suspension</u> or <u>ATR</u> (including the submission of satisfactory Corrective Actions). The <u>Suspension</u> or <u>ATR</u>, including any extensions, shall not exceed twelve (12) months, unless the <u>Laboratory</u> is subject to <u>Revocation</u> proceedings in accordance with Article 7.1.2 or as otherwise determined by <u>WADA</u>.
  - If applicable, a delay in the delivery of the ISO/IEC 17025 accreditation to the <u>Laboratory</u> by the relevant AB may also constitute grounds to extend the <u>Suspension</u> of the <u>Laboratory</u>'s *WADA* accreditation.
- c) The decision to extend the <u>Suspension</u> or the <u>ATR</u> period shall be rendered by the Chair of the <u>WADA</u> Executive Committee based on a recommendation from the <u>Lab EAG</u>. <u>WADA</u> shall provide the <u>Laboratory</u> with the decision of the Chair of the <u>WADA</u> Executive Committee.
- d) The <u>Laboratory</u> may appeal *WADA*'s decision not to extend the <u>Suspension</u> or the ATR period to *CAS* in accordance with Article 7.1.5.
- e) If, in accordance with the terms of the extension of the <u>Suspension</u> or the <u>ATR</u>, the <u>Laboratory</u> provides evidence determined to be satisfactory by *WADA* that all the identified noncompliance(s) have been corrected, the <u>Suspension</u> or <u>ATR</u> shall be lifted by decision of the Chair of the *WADA* Executive Committee.



- f) If the <u>Laboratory</u> has not provided evidence determined to be satisfactory by *WADA* at the end of the extended <u>Suspension</u> period, the <u>Lab EAG</u> shall recommend the <u>Revocation</u> of the <u>Laboratory</u>'s accreditation. The decision to revoke a <u>Laboratory</u>'s *WADA* accreditation shall be rendered by the *WADA* Executive Committee.
- g) If the <u>Laboratory</u> has not provided evidence determined to be satisfactory by WADA at the end of the extended <u>ATR</u> period, the <u>Lab EAG</u> shall recommend the <u>Suspension</u> or <u>Revocation</u> of the <u>Laboratory</u>'s accreditation, as determined by the <u>Lab EAG</u>. The decision to suspend a <u>Laboratory</u>'s WADA accreditation shall be rendered by the Chair of the WADA Executive Committee, whereas a WADA accreditation <u>Revocation</u> decision shall be rendered by the WADA Executive Committee.
- h) If the <u>Laboratory</u> is subject to <u>Suspension</u> proceedings either at the end of a six (6) month <u>ATR</u> or any extension thereafter, the <u>Laboratory</u>'s accreditation shall remain subject to the <u>ATR</u> or a <u>Provisional Laboratory Suspension</u> (if applicable) until the completion of the <u>Suspension</u> proceedings.
- i) If the <u>Laboratory</u> is subject to <u>Revocation</u> proceedings either at the end of a six (6) month <u>Suspension</u> or <u>ATR</u> or any extension thereafter, the <u>Laboratory</u>'s <u>WADA</u> accreditation shall remain subject to the <u>Suspension</u> or <u>ATR</u>, as applicable, until the completion of the <u>Revocation</u> proceedings and pending the <u>Revocation</u> decision by the <u>WADA</u> Executive Committee. If the <u>WADA</u> Executive Committee confirms the <u>Revocation</u> of the <u>Laboratory</u>'s <u>WADA</u> accreditation, then the <u>Laboratory</u>'s <u>WADA</u> accreditation shall remain subject to the <u>Suspension</u> or <u>ATR</u>, as applicable, until the <u>Revocation</u> comes into effect according to Article 7.1.5.
- j) WADA shall not be required to take any other formal action to extend the <u>Laboratory</u>'s <u>Suspension</u> or <u>ATR</u> beyond either the initial six (6)-month <u>Suspension</u> or <u>ATR</u> or beyond the twelve (12)-month extended <u>Suspension</u> or <u>ATR</u>, apart from formally instituting <u>Suspension</u> or <u>Revocation</u> proceedings against the <u>Laboratory</u>, as applicable. Further, if <u>Revocation</u> proceedings are instituted against a <u>Laboratory</u> in such circumstances, the <u>Laboratory</u> may not appeal the extension of its <u>ATR</u> or <u>Suspension</u> beyond the initial six (6)-month <u>Suspension</u> or <u>ATR</u> period or beyond the twelve (12) months of the extended <u>Suspension</u> or <u>ATR</u>.

# 7.4 Voluntary Cessation of <u>Laboratory</u> Operations

A <u>Laboratory</u> may decide to voluntarily cease its anti-doping <u>Analytical Testing</u> operations on either a temporary or permanent basis despite not having been found to have committed any analytical failures or other ISL noncompliance(s) and not having been subject to an <u>ATR</u> or <u>Suspension</u> or <u>Revocation</u> of its *WADA* accreditation.

In such circumstances, the <u>Laboratory</u> shall inform *WADA* and provide, in writing, the reason(s) for the cessation of its anti-doping <u>Analytical Testing</u> operations as soon as the decision is taken to cease its operations and no later than three (3) months prior to the date on which its decision shall take effect. The <u>Laboratory</u> shall also take all necessary measures to notify all its customers of the decision to cease its operations and to arrange, in consultation with its customers, the transfer of *Samples* to another Laboratory(-ies).



## 7.4.1 Temporary Closure of <u>Laboratory</u> Operations

If a <u>Laboratory</u> voluntarily ceases its anti-doping <u>Analytical *Testing*</u> operations on a temporary basis, the <u>Laboratory</u> shall:

- a) Transfer Samples to another <u>Laboratory</u>(-ies) in accordance with Article 7.2.2.
- b) Maintain its participation in the *WADA* <u>EQAS</u> with satisfactory performance during the period of inactivity.

The period of temporary cessation of <u>Analytical Testing</u> activities shall not exceed six (6) months, unless reasons are provided by the <u>Laboratory</u> justifying the possible extension of up to six (6) additional months (as determined by the Chair of the *WADA* Executive Committee based on a recommendation from the Lab EAG).

If the <u>Laboratory</u> is unable to resume its <u>Analytical Testing</u> operations within a twelve (12)-month period, the *WADA* Executive Committee shall revoke the <u>Laboratory</u>'s accreditation, unless otherwise determined by *WADA*.

### 7.4.2 Permanent Closure of <u>Laboratory</u> Operations

If a <u>Laboratory</u> decides to cease its operations on a permanent basis, the <u>Laboratory</u> shall assist the relevant <u>TA(-ies)</u> with the transfer of relevant <u>Sample</u> data and records to another Laboratory(-ies) in accordance with Article 7.2.3.

### 7.5 Laboratory Reinstatement

# 7.5.1 Reinstatement of Suspended Accreditation or Lifting of <u>Analytical Testing</u> Restriction

WADA shall lift the <u>Suspension</u> of the <u>Laboratory's</u> WADA accreditation or the <u>ATR</u> only when the <u>Laboratory</u> provides satisfactory evidence, as determined by WADA, that appropriate steps have been taken to remedy the noncompliance(s) that resulted in the <u>Suspension</u> of the <u>Laboratory's</u> WADA accreditation or the imposition of the <u>ATR</u>, respectively, and that proper measures have been implemented to satisfactorily address the condition(s) specified, if any, for reinstatement of its WADA accreditation. This may include the <u>Laboratory</u> analysis of additional <u>EQAS</u> samples and/or the conduct of a WADA <u>Laboratory</u> Assessment, at any time and at the expense of the <u>Laboratory</u>, to evaluate the <u>Laboratory</u>'s status. If all conditions are met, the lifting of the Suspension or the <u>ATR</u> may occur before the end of the minimum applicable sanction period, as determined by WADA.

# 7.5.2 Re-accreditation after Revocation

If a laboratory whose *WADA* accreditation has been revoked wishes to seek a new *WADA* accreditation, it shall apply as a new <u>Applicant laboratory</u> in accordance with Article 4.1.1.



A laboratory seeking a new *WADA* accreditation may request that *WADA* expedite the laboratory re-accreditation process. To do so the laboratory shall provide *WADA*, as part of its application for a new accreditation, information that it considers constitutes "exceptional circumstances" to justify modification of the requirements of Articles 4.1.1 and 4.1.2 and expedite the entry of the laboratory into, and/or shortening the duration of, the probationary phase of accreditation. At its sole discretion, *WADA*'s Executive Committee may determine whether such modifications are justified, and which steps shall be followed prior to granting an expedited re-accreditation process.

# 7.6 <u>Suspension</u> or <u>Revocation</u> of <u>ABP Laboratory</u>

An <u>ABP Laboratory</u>'s <u>WADA</u> approval may be suspended or revoked whenever the <u>ABP Laboratory</u> fails to comply with the ISL and/or applicable ISL <u>TD</u>s and/or ISL <u>TL</u>s, or where the <u>Suspension</u> or <u>Revocation</u> of the laboratory's approved status is otherwise required in order to protect the integrity of the whole blood <u>Samples</u> and the <u>Analytical Testing</u> process for the Hematological Module of the <u>ABP</u> and the interests of the Anti-Doping Community.

- a) <u>Suspension</u> and <u>Revocation</u> procedures for an <u>ABP Laboratory</u>'s approval status shall follow the provisions of Articles 7.1.1 and 7.1.2, respectively, *mutatis* mutandis.
- b) Disciplinary Proceedings to suspend or revoke a laboratory's WADA approval for the ABP (including notice, publication, and right to appeal) shall be conducted in accordance with the procedures described in Article 7.1.3, applied, and modified accordingly, and the Procedural Rules (ISL Annex).
- c) Due to the negative impact of time on the stability of the blood cells targeted for the analysis of the *Markers* of the Hematological Module of the *ABP*, it is not normally feasible to send the whole blood *Samples* to other <u>Laboratory</u>(-ies) or <u>ABP Laboratory</u>(-ies) for this analysis after <u>Suspension</u> or <u>Revocation</u> of a laboratory's *WADA* approval for the *ABP*.
- d) WADA shall lift the <u>Suspension</u> only when the <u>ABP Laboratory</u> provides satisfactory evidence, as determined by WADA, that appropriate steps have been taken to remedy the noncompliance(s) that resulted in the <u>Suspension</u>, and that proper measures have been implemented to satisfactorily address the condition(s) specified, if any, for reinstatement of WADA approval.

If a laboratory whose *WADA* approval for the *ABP* has been revoked wishes to seek a new *WADA ABP* approval, it shall apply as a new <u>Applicant ABP</u> laboratory in accordance with Article 4.2.1.



# 7.7 Reporting of False Analytical Findings During a Major Event

a) Reporting of a False AAF

If a Laboratory reports a False AAF during a Major Event, the Laboratory shall:

- i. Immediately cease the application of the relevant <u>ATP(s)</u> (immediate provisional <u>ATR</u>).
- ii. Inform the responsible <u>RMA</u> (i.e., the *MEO* or *DTP* delegated to undertake *Results Management* responsibilities for the <u>Major Event</u>) and *WADA*.
- iii. Determine the root cause of the nonconformity within twenty-four (24) hours of notification of the False AAF.
- iv. Apply and report to *WADA* satisfactory Corrective Action(s) within forty-eight (48) hours of notification of the False *AAF*, unless otherwise agreed in writing.
- v. Re-analyze all Samples that had been analyzed prior to the reporting of the False AAF and reported as an AAF based on the application of the ATP(s) for which the noncompliance occurred. The results of the investigation and analysis shall be presented to WADA within forty-eight (48) hours, unless otherwise agreed in writing (see also ISL TD PERF).

## b) Reporting of a False Negative Finding

If a <u>Laboratory</u> reports a False <u>Negative Finding</u> during a <u>Major *Event*</u>, the <u>Laboratory</u> shall:

- i. Inform the responsible <u>RMA</u> (i.e., the *MEO* or *DTP* delegated to undertake *Results Management* responsibilities for the <u>Major Event</u>) and *WADA*.
- ii. Investigate the root cause and apply satisfactory Corrective Actions as soon as possible.
- iii. Re-analyze an appropriate number of *Samples* reported as a <u>Negative Finding</u> based on the application of the <u>ATP(s)</u> for which the noncompliance occurred (see also ISL *TD* PERF).
- iv. The Corrective Actions implemented, and the results of the reanalysis shall be presented to *WADA* within forty-eight (48) hours, unless otherwise agreed in writing.

The failure by the <u>Laboratory</u> to implement satisfactory Corrective Action(s) in a timely manner, as specified above, shall result in the imposition of a <u>Suspension</u> or an <u>ATR</u>, as determined by *WADA*, and the cessation of <u>Analytical Testing</u> during the <u>Major Event</u> (see also ISL *TD* PERF). The procedure for the imposition of a <u>Suspension</u> or an <u>ATR</u> shall follow the provisions of Article 7.1.1 *mutatis mutandis*.



### 8.0 Code of Ethics for Laboratories

# 8.1 Confidentiality

Laboratory Directors, their delegates and all Laboratory staff shall respect and comply with Article 5.3.6.3 and *Code* Article 14.3.5.

### 8.2 Research in Support of *Doping Control*

The <u>Laboratory</u> shall participate in research programs, provided that the <u>Laboratory</u> Director is satisfied with their *bona fide* nature and the program(s) has received proper ethical approval, if applicable. The <u>Laboratory</u> shall not engage in any research activity that undermines or is detrimental to the World Anti-Doping Program.

The <u>Laboratories</u> are expected to develop a R&D program to support and expand the scientific foundation of *Doping Control*. This research may consist of the development of new methods or technologies, the pharmacological characterization of a new doping agent, the characterization of a masking agent or method, and other topics relevant to the field of *Doping Control*.

### 8.2.1 Research on Human Subjects

The <u>Laboratory</u> shall follow the Helsinki Declaration and any applicable national standards as they relate to the involvement of human subjects in research (see also *Code* Article 19.4). Voluntary informed consent shall also be obtained from human subjects in any drug administration studies for the purpose of developing a <u>RC</u> or proficiency testing materials.

Athletes who may undergo *Doping Control Testing* by *ADOs* shall not be the subjects of drug administration studies that include *Prohibited Substances* or *Prohibited Methods* (see also *Code* Article 19.5).

### 8.2.2 Controlled Substances

The <u>Laboratory</u> is expected to comply with the relevant and applicable national laws regarding the handling, storage and discarding of controlled (illegal) substances.

### 8.3 Analysis

The Laboratory shall not engage in any analysis or activity that undermines or is detrimental to the World Anti-Doping Program.

[Comment to Article 8.3: The World Anti-Doping Program comprises the anti-doping programs of ADOs.]

### 8.3.1 Analytical Testing for ADOs

The Laboratory shall accept *Samples* for <u>Analytical *Testing*</u> from *ADOs* only (see also Article 5.3.2) if all the following conditions have been met:

a) The *Sample* matrix is of the proper type (e.g., urine, whole blood, DBS) for the requested analyses.



- b) The *Samples* have been collected, sealed, and transported to the Laboratory in accordance with the *IST*; and
- c) The collection is a part of a legitimate anti-doping program, as determined by *WADA*, or satisfies any of the conditions for *Sample* analysis indicated in Article 5.3.4.

# 8.3.2 Analytical Testing for Non-Signatories

- a) The Laboratory shall not accept *Samples* directly from individual *Athletes* or from individuals or organizations acting on their behalf.
- b) The Laboratory may accept samples from non-Signatories for analysis; however, such analysis shall not be conducted under the Laboratory's WADA accreditation or under the ABP Laboratory's WADA approval and test results shall not be reported in ADAMS. In addition, such analyses shall not negatively affect the Analytical Testing of Samples from ADOs, concerning the allocation of resources (e.g., human, financial, instrumental resources) and the reporting of results in a reliable and timely manner.

[Comment to Article 8.3.2: A <u>Laboratory</u> or <u>ABP Laboratory</u> shall only refer to its WADA accreditation or approval status, as applicable, for an activity that falls under its <u>Analytical Testing</u> activities for ADOs. For the avoidance of doubt, Laboratory test reports or other documentation or correspondence related to samples from non-Signatories shall not declare or represent that any such analytical activity is covered under the Laboratory's WADA-accredited or -ABP approved status].

#### 8.3.3 Clinical or Forensic Analysis

Occasionally the <u>Laboratory</u> may be requested to analyze a sample for a banned drug or endogenous substance coming from a hospitalized or ill *Person* to assist a physician in the diagnostic process. In such circumstances, the <u>Laboratory</u> Director shall agree to analyze the sample only if the organization making the request provides a letter explaining the medical reason for the test and explicitly certifying that the requested analysis is for medical diagnostic or therapeutic purposes.

The <u>Laboratory</u> may conduct work to aid a forensic and/or legal investigation, but due diligence should be exercised to ensure that the work is requested by an appropriate agency or organization. The <u>Laboratory</u> should not engage in analytical activities or expert testimony that would intentionally question the integrity of an individual or the scientific validity of work performed in the anti-doping program.

# 8.3.4 Other Analytical Activities

The Laboratory shall not provide analytical services as part of a *Results Management* or *Doping Control* adjudication process, unless specifically requested by the responsible RMA, *WADA* or a hearing body.

The <u>Laboratory</u> shall not engage in analyzing commercial material or preparations (e.g., dietary or herbal supplements), unless:



- a) Specifically requested by an <u>RMA</u> or a hearing body as part of a <u>Results Management</u> or adjudication process. If a request is made by an <u>Athlete</u>, the <u>Laboratory</u> may conduct the analysis if agreed by the <u>RMA</u>, which may also specify conditions that shall be followed prior to or during the analysis (e.g., verification of original sealed packages, product batch number); or
- b) If done as part of a legitimate anti-doping research program, as determined by *WADA*.

The <u>Laboratory</u> shall not provide results, documentation, or advice that, in any way, could be used as an endorsement of products or services.

Analytical activities performed under Articles 8.3.3 and 8.3.4 shall not fall under the *WADA*-accredited or -approved status of the Laboratory and shall not negatively affect the <u>Analytical Testing</u> of Samples from ADOs.

[Comment to Article 8.3.4: For the avoidance of doubt, Laboratory test reports or other documentation or correspondence related to these other analytical activities shall not declare or represent that any such testing is covered under the Laboratory's WADA-accredited or -ABP approved status.]

# 8.4 Sharing of Knowledge

When information on new doping substance(s), method(s), or practice(s) is known to the <u>Laboratory</u>, such information shall be shared with *WADA* within sixty (60) days. When possible, the <u>Laboratories</u> shall share information with *WADA* regarding the detection of potentially new or rarely detected doping agents as soon as possible. Immediately after having been notified of the *Use* of a new substance or method as a doping agent, *WADA* shall inform all <u>Laboratories</u>.

The <u>Laboratory</u> Director or staff shall participate in developing standards for best practice and enhancing uniformity of <u>Analytical Testing</u> in the *WADA*-accredited Laboratory system.

[Comment to Article 8.4: Sharing of knowledge can occur in various ways, including but not limited to directly communicating with WADA, participating in scientific meetings, publishing results of research, sharing specific details of <u>Analytical Methods</u>, working with WADA to produce and/or distribute new <u>RMs</u> or <u>RCs</u> or disseminating analytical protocols or information.]

# 8.5 Duty to Preserve the Integrity of the World Anti-Doping Program and to Avoid any Detrimental Conduct

- a) The personnel of Laboratories shall not engage in conduct or activities that undermine or are detrimental to the World Anti-Doping Program or WADA. Such conduct could include, but is not limited to, fraud, embezzlement, perjury, etc. that would cast doubt on the integrity of the anti-doping program. This also pertains to any attempts of collusion between <u>Laboratories</u>, <u>Probationary laboratories</u> and/or <u>ABP Laboratories</u> as part of their participation in the WADA <u>EQAS</u> (see also ISL <u>TD EQAS</u>).
- b) All employees of Laboratories shall strictly respect the confidentiality of <u>Analytical Testing</u> results, as well as of all other Laboratory or <u>TA</u> information, including information provided by *WADA* under confidentiality.



- c) No employee or consultant of Laboratories shall provide counsel, advice or information to Athletes or others regarding techniques or methods used to mask or avoid detection of, alter metabolism of, or suppress excretion of a Prohibited Substance or its Metabolite(s), or Marker(s) of a Prohibited Substance or Prohibited Method to avoid an AAF.
- d) No employee or consultant of Laboratories shall provide information about a <u>Test Method</u> to an *Athlete* or *Athlete Support Personnel*, which could be used to avoid the detection of doping.
  - [Comment to Article 8.5 d): This does not prohibit the publication and/or presentation of scientific research results, general presentations to educate Athletes, students, or others concerning anti-doping programs and Prohibited Substances or Prohibited Methods.]
- e) No staff of Laboratories shall assist an *Athlete* in avoiding collection of a representative *Sample* (e.g., advice on masking strategies or detection windows).
- f) If a staff member of a Laboratory is requested to provide evidence in anti-doping proceedings, they are expected to provide independent, scientifically valid expert testimony.
- g) The Laboratory shall not issue any statements related to its analytical processes or findings, unless otherwise provided in *Code* Article 14.3.5. The responsibility for evaluation of these findings with further action and publication, if considered necessary, shall be the sole responsibility of the responsible *ADO*s.

#### 8.6 Breach and Enforceability

A failure to respect any of the provisions of this Code of Ethics may result in the Laboratory being subject to Disciplinary Proceedings instituted by *WADA* to suspend or revoke its *WADA* accreditation or its *WADA* approval, as applicable, in accordance with Article 7.1.3.

In addition, a failure to respect any of the provisions of this Code of Ethics may result in staff of the Laboratory being subject to disciplinary action by the Laboratory, resulting in consequences beyond those stipulated under the ISL, including potential termination of employment or, where applicable, the imposition of criminal charges.



# PART THREE: ISL ANNEXES AND APPENDICES

# ISL ANNEX A: PROCEDURAL RULES FOR THE DISCIPLINARY COMMITTEE OF THE ISL

#### **Preamble**

These Procedural Rules for the Disciplinary Committee (DC) of the ISL (the "Procedural Rules") outline the process to be followed when a <u>Laboratory</u> challenges a recommendation of the <u>Lab EAG</u> in accordance with ISL Article 7.1.1.5, when a <u>Laboratory</u> is subject to <u>Revocation</u> proceedings in accordance with ISL Articles 7.1.2.2 or 7.1.2.3 or, when and where applicable, Disciplinary Proceedings are instituted against an <u>ABP Laboratory</u> in accordance with ISL Article 7.6. In such circumstances, any reference made to a <u>Laboratory</u> in these Procedural Rules shall also be understood as a reference to an <u>ABP Laboratory</u>, unless such reference is not applicable due to the circumstances, specific nature or rules indicated in this ISL in relation to <u>ABP Laboratories</u>.

These Procedural Rules shall be considered as an integral part of the ISL.

# PART I – Composition of the Committee

#### Article A-1

For each individual case, a DC shall be constituted. It shall be composed of three (3) members including a Chairperson.

WADA's Director General shall appoint the three (3)-member DC for each case and select one member to serve as Chairperson.

The appointed members shall have a legal and/or scientific background with at least one member being an anti-doping laboratory expert and one with legal training and education (including the Chairman). The Chairman shall have experience in the conduct of disciplinary or legal proceedings.

All appointed members of a DC shall be free of any conflict of interest with WADA, the <u>Laboratory</u> concerned, or any other <u>Laboratory</u>, entity, organization, or individual that could potentially benefit from the concerned <u>Laboratory</u>'s <u>Suspension</u>, <u>Revocation</u> or <u>ATR</u>, and shall otherwise be impartial in relation to WADA and the <u>Laboratory</u> concerned. The anti-doping laboratory expert(s) may be member(s) of the <u>Lab EAG</u> unless the case has been the subject of previous discussion or recommendation by the <u>Lab EAG</u>.

All DC members shall sign a declaration in which they agree to maintain the confidentiality of the disciplinary process and any information related thereto, confirm their impartiality, and mention any circumstance that may be relevant in this respect.

## Article A-2

If the impartiality of any member of the DC is challenged (for example, by the <u>Laboratory</u>), the matter shall be decided by the Chairperson if he/she is not the concerned DC member or by the two other DC members if the challenge concerns the Chairperson. In the event the two DC members cannot agree, *WADA*'s Director General shall make the final decision. The decision is not subject to an independent challenge.



#### **PART II – General Provisions**

#### Article A-3

Once the DC is constituted, WADA shall provide it with the case file which includes the evidence it wishes to submit in support of the disciplinary action being taken against the <u>Laboratory</u>. WADA may send the case file and any relevant information to the DC electronically or by registered mail.

Simultaneously, *WADA* shall provide the <u>Laboratory</u> with the case file and with all the available supporting evidence. *WADA* may send the case file and any information to the <u>Laboratory</u> electronically or by registered mail.

Within seven (7) days of receiving the case file, the <u>Laboratory</u> may respond in writing and provide its evidence to the DC and simultaneously to *WADA*'s Legal Department. Any requests to extend the deadline shall be addressed by the <u>Laboratory</u> to the Chairperson of the DC, who shall have the discretion to grant or reject the requested extension.

Upon receipt of the <u>Laboratory</u>'s submissions and evidence, *WADA* shall have seven (7) days to make rebuttal submissions to the DC. Any requests by *WADA* to extend this deadline shall be addressed to the Chairperson of the DC, who shall have the discretion to grant or reject the requested extension.

If the <u>Laboratory</u> fails or chooses not to respond or provide evidence within the required timeframe, the Disciplinary Proceedings shall continue based on the evidence at the disposal of the DC.

#### Article A-4

Unless both parties agree or the Chairperson, at their discretion and following consultation with the other DC members, orders otherwise based on justified grounds, the parties shall not be permitted to include additional material after the submission of the evidence packages in accordance with the procedure described in Article A-3 above. Any determination made by the Chairperson pursuant to this Article A-4 is not subject to challenge or appeal.

#### Article A-5

The working language of the DC shall be English. The DC may accept documents in other languages at its discretion.

# PART III - Scope of the Committee's Review

#### Article A-6

The DC shall have the authorization to review the evidence of the case and to make a recommendation regarding the status of the <u>Laboratory</u>'s *WADA* accreditation.

To the extent not otherwise provided in these "Procedural Rules", the Chairperson may issue directions regarding procedural matters to the parties.

The DC shall have the right to appoint one or more independent expert(s) should it consider that expertise is required for it to make its recommendation to maintain, suspend or revoke a <u>Laboratory</u>'s *WADA* accreditation or to impose an ATR.



After consulting the parties, the DC may, if it deems itself to be sufficiently well informed, decide not to hold a hearing and it may determine its recommendation based on the parties' written submissions and the available documents.

The DC shall make its recommendation in accordance with the applicable regulations, including the *Code*, the ISL and any relevant ISL *TDs* or ISL *TLs*, or any other rules or law agreed to by *WADA* and the Laboratory, and by default, Swiss law.

The DC's decisions, including the content of its recommendation, shall be by majority.

#### **PART IV – Recommendation**

#### Article A-7

The recommendation of the DC shall be issued in writing, with reasons <sup>30</sup>, within fourteen (14) days of the conclusion of the hearing. If no hearing is held, the DC shall issue its recommendation within fourteen (14) days of communication to the parties that no hearing shall be held.

Where the DC considers that a <u>Laboratory</u>'s accreditation should be suspended or subject to an <u>ATR</u>, it shall recommend to the Chair of the *WADA* Executive Committee a period of <u>Suspension</u> or <u>ATR</u> that is proportionate to the seriousness of the noncompliance(s) with the ISL and/or ISL *TDs* and/or ISL *TL*s and the need to ensure accurate and reliable Analytical *Testing* of *Samples*.

The DC may recommend to the Chair of the WADA Executive Committee that a Laboratory's WADA accreditation be suspended or subjected to an ATR for a period of up to six (6) months. During this time, any ISL and/or ISL TD and/or ISL TL noncompliance(s) identified within the context of the Disciplinary Proceedings instituted against the Laboratory and resulting in the Suspension of its WADA accreditation or the imposition of an ATR, or during a subsequent WADA Laboratory Assessment conducted during the Laboratory's Suspension or during the period of the ATR, shall be corrected, documented, reported to WADA and determined to be satisfactory by WADA. The DC shall also indicate any conditions that the Laboratory shall satisfy prior to or after reinstatement of the Laboratory's WADA accreditation.

In cases where it is considered that it is appropriate to do so, the DC may also recommend to the Chair of the *WADA* Executive Committee that the <u>Laboratory</u> receive a private warning without the imposition of a period of <u>Suspension</u> or <u>ATR</u>. The <u>Laboratory</u> may also be requested to take specified action(s) to resolve the issues identified within a defined timeline.

The recommendation of the DC shall be provided to the Chair of the WADA Executive Committee without delay.

If the DC recommends the <u>Suspension</u> of the <u>Laboratory</u>'s *WADA* accreditation or the imposition of an <u>ATR</u>, the Chair of the *WADA* Executive Committee shall render a final decision regarding the <u>Suspension</u> of the <u>Laboratory</u>'s *WADA* accreditation or the imposition of an <u>ATR</u> within ten (10) days of receiving the DC's recommendation.

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<sup>&</sup>lt;sup>30</sup> The decision may be summarily reasoned.



If the DC recommends the <u>Revocation</u> of the <u>Laboratory</u>'s *WADA* accreditation, the *WADA* Executive Committee shall render a decision regarding the <u>Revocation</u> of the <u>Laboratory</u>'s *WADA* accreditation within fourteen (14) days of receiving the DC's recommendation.

If the DC recommends to the Chair of the WADA Executive Committee that the <u>Laboratory</u> shall maintain its WADA accreditation, and the Chair of the WADA Executive Committee accepts the DC's recommendation, the <u>Laboratory</u> shall be informed accordingly by WADA within seven (7) days of receiving the Chair of the WADA Executive Committee's decision.

# Part V – Expedited Proceedings or Single Hearing before CAS

#### Article A-8

Where required by the circumstances, the DC may, at the request of WADA or the Laboratory, conduct Disciplinary Proceedings in an expedited manner. In such situations, the DC may issue appropriate directions and modify the timelines indicated in these Procedural Rules as required and justified by the circumstances, but shall ensure that the principles of procedural fairness, and the requirements otherwise stated in these Procedural Rules, are always respected.

The decision to conduct Disciplinary Proceedings in an expedited manner shall be at the sole discretion of the DC and shall not be subject to appeal.

If required due to time constraints, the DC may issue an operative recommendation to the Chairman of the WADA Executive Committee or the WADA Executive Committee, as applicable, with reasons to follow.

In cases of a <u>Suspension</u> or an <u>ATR</u>, the Chairman of the *WADA* Executive Committee or, in cases of <u>Revocation</u>, the *WADA* Executive Committee, shall endeavor to render a decision regarding the status of the <u>Laboratory</u>'s *WADA* accreditation as soon as reasonably possible. Once received, *WADA* shall provide the decision to the Laboratory without delay.

[Comment to Article A-8: The <u>Laboratory</u> or WADA may request that Disciplinary Proceedings be conducted in an expedited manner if a decision regarding the status of the <u>Laboratory</u>'s accreditation shall be made shortly prior to the commencement of a Major Event or Event or otherwise justified by the circumstances.]

#### Article A-9

The <u>Laboratory</u> and *WADA* may agree to have the assertion of a noncompliance(s) with the ISL and/or ISL *TD*s and/or ISL *TD*s heard in a single hearing directly before a three (3)-member Panel of the *CAS* Anti-Doping Division in accordance with the Arbitration Rules for the *CAS* Anti-Doping Division.

With the consent of *WADA* and the <u>Laboratory</u>, the proceedings may be conducted in an expedited manner in accordance with the Arbitration Rules for the *CAS* Anti-Doping Division.



# **APPENDIX 1: DEFINITIONS**

#### I. Defined Terms from the 2027 Code that are used in the ISL

**ADAMS:** The Anti-Doping Administration and Management System is a Web-based database management tool for data entry, storage, sharing, and reporting designed to assist stakeholders and *WADA* in their anti-doping operations in conjunction with data protection legislation.

**Adverse Analytical Finding (AAF):** A report from a WADA-accredited laboratory or other WADA-approved laboratory that, consistent with the *International Standard* for Laboratories, establishes in a Sample the presence of a Prohibited Substance or its Metabolites or Markers or evidence of the Use of a Prohibited Method.

Anti-Doping Organization (ADO): WADA or a Signatory that is responsible for adopting rules for initiating, implementing or enforcing any part of the Doping Control process. This includes, for example, the International Olympic Committee, the International Paralympic Committee, other Major Event Organizations that conduct Testing at their Events, International Federations, and National Anti-Doping Organizations.

Athlete: Any Person who competes in sport at the international level (as defined by each International Federation) or the national level (as defined by each National Anti-Doping Organization). An Anti-Doping Organization has discretion to apply anti-doping rules to an Athlete who is neither an International-Level Athlete nor a National-Level Athlete, and thus to bring them within the definition of "Athlete." In relation to Athletes who are neither International-Level nor National-Level Athletes, an ADO may elect to: conduct limited Testing or no Testing at all; analyze Samples for less than the full menu of Prohibited Substances; require limited or no whereabouts information; or not require advance Therapeutic Use Exemptions. However, if an Article 2.1, 2.3 or 2.5 anti-doping rule violation is committed by any Athlete over whom an Anti-Doping Organization has elected to exercise its authority to test and who competes below the international or national level, then the Consequences set forth in the Code shall be applied. For purposes of Article 2.8 and Article 2.9 and for purposes of anti-doping information and education, any Person who participates in sport under the authority of any Signatory, government, or other sports organization accepting the Code is an Athlete.

[Comments to Athlete: For the avoidance of doubt, an Anti-Doping Organization may not adopt different rules for such Athletes (including with respect to Therapeutic Use Exemptions) except with respect to the matters explicitly referenced above or as expressly allowed by an International Standard.

Individuals who participate in sport may fall in one of five categories: 1) International-Level Athlete, 2) National-Level Athlete, 3) individuals who are not International or National-Level Athletes but over whom the International Federation or National Anti-Doping Organization has chosen to exercise authority, 4) Recreational Athlete, and 5) individuals over whom no International Federation or National Anti-Doping Organization has, or has chosen to, exercise authority. All International and National-Level Athletes are subject to the anti-doping rules of the Code, with the precise definitions of international and national level sport to be set forth in the anti-doping rules of the International Federations and National Anti-Doping Organizations.]

**Athlete Biological Passport (ABP):** The program and methods of gathering and collating data as described in the *International Standard* for *Testing* and *International Standard* for Laboratories.

**Atypical Finding (ATF):** A report from a WADA-accredited laboratory or other WADA-approved laboratory, which requires further investigation as provided by the applicable *International* Standards (including related *Technical Documents* or *Technical Letters*), or as directed by WADA,



prior to the final determination about the finding (i.e., the establishing, or not, of an *Adverse Analytical Finding* and/or an anti-doping rule violation).

CAS: The Court of Arbitration for Sport.

Code: The World Anti-Doping Code.

**Competition:** A single race, match, game or singular sport contest. For example, a basketball game or the finals of the Olympic 100-meter race in athletics. For stage races and other sport contests where prizes are awarded on a daily or other interim basis the distinction between a *Competition* and an *Event* will be as provided in the rules of the applicable International Federation.

Consequences of Anti-Doping Rule Violations ("Consequences"): An Athlete's or other Person's violation of an anti-doping rule may result in one or more of the following: (a) <u>Disqualification</u> means the Athlete's results in a particular Competition or Event are invalidated, with all resulting Consequences including forfeiture of any medals, points and prizes; (b) <u>Ineligibility</u> means the Athlete or other Person is barred on account of an anti-doping rule violation for a specified period of time from participating in any Competition or other activity or funding as provided in Article 10.12.1; (c) Provisional Suspension means the Athlete or other Person is barred temporarily from participating in any Competition or activity prior to the final decision at a hearing conducted under Article 8; (d) Financial Consequences means a financial sanction imposed for an anti-doping rule violation or to recover costs associated with an anti-doping rule violation; and (e) Public Disclosure means the dissemination or distribution of information to the general public or Persons beyond those Persons entitled to earlier notification in accordance with Article 14. Teams in Team Sports may also be subject to Consequences as provided in Article 11.

**Decision Limit (DL):** The value above which a quantitative analytical result for a Threshold Substance in a *Sample* shall be reported as an *Adverse Analytical Finding*.

[Comment to Decision Limit: For more information on DLs and which Threshold Substances they are applied for, refer to the ISL TD DL and other applicable Technical Documents (e.g., ISL TD GH, ISL TD CG/LH).]

**Delegated Third Parties (DTP):** Any *Person* to which an *Anti-Doping Organization* delegates any aspect of *Doping Control* or anti-doping Education programs including, but not limited to, third parties or other *Anti-Doping Organizations* that conduct *Sample* collection or other *Doping Control* services or anti-doping *Educational* programs for the *Anti-Doping Organization*, or individuals serving as independent contractors who perform *Doping Control* services for the *Anti-Doping Organization* (e.g., non-employee *Doping Control* officers or chaperones). This definition does not include *CAS*.

**Doping Control:** All steps and processes from test distribution planning through to ultimate disposition of any appeal and the enforcement of *Consequences*, including all steps and processes in between, including but not limited to, *Testing*, investigations, whereabouts, *Therapeutic Use Exemptions*, *Sample* collection and handling, laboratory analysis, *Results Management*, and investigations or proceedings relating to violations of Article 10.14 (Status During *Ineligibility* or *Provisional Suspension*).

**Event:** A series of individual *Competitions* conducted together under one ruling body (e.g., the Olympic Games, World Championships of an International Federation or Pan American Games).



**In-Competition (IC):** The period commencing at 11:59 pm on the day before a *Competition* in which the *Athlete* is scheduled to participate through the end of such *Competition* and the *Sample* collection process related to such *Competition*. Provided, however, *WADA* may approve, for a particular sport, an alternative definition if an International Federation provides a compelling justification that a different definition is necessary for its sport; upon such approval by *WADA*, the alternative definition shall be followed by all *Major Event Organizations* for that particular sport.

[Comment to In-Competition: Having a universally accepted definition for IC provides greater harmonization among Athletes across all sport, eliminates or reduces confusion among Athletes about the relevant timeframe for IC Testing, avoids inadvertent AAFs in between Competitions during an Event and assists in preventing any potential performance enhancement benefits from substances prohibited OOC being carried over to the Competition.]

**Independent Observer Program:** A team of observers and/or auditors, under the supervision of *WADA*, who observe and provide guidance on the *Doping Control* process prior to or during certain *Events* and report on their observations as part of *WADA*'s compliance monitoring program.

*Ineligibility*: See Consequences of Anti-Doping Rule Violations above.

International Standard: A standard adopted by WADA in support of the Code. Compliance with an International Standard (as opposed to another alternative standard, practice or procedure) shall be sufficient to conclude that the procedures addressed by the International Standard were performed properly. International Standards shall include any Technical Documents and Technical Letters issued pursuant to the International Standard.

**Major Event Organization (MEO):** A continental association of *National Olympic Committees* and other international multi-sport organizations that function as the ruling body for any continental, regional or other *International Event*.

**Marker:** A compound, group of compounds or biological variable(s) that indicates the *Use* of a *Prohibited Substance* or *Prohibited Method*.

Metabolite: Any substance produced by a biotransformation process.

**Minimum Reporting Level (MRL):** Value below which an estimated analytical result for some Non-Threshold Substances should not be reported as an *Adverse Analytical Finding*.

[Comment to Minimum Reporting Level: For more information on MRLs and the Non-Threshold Substances to which they shall be applied, refer to the ISL TD MRL or to the relevant Technical Letter(s).]

**Monitoring Program**: Laboratory Analytical Testing program including substances or methods that are not in the *Prohibited List*, but that *WADA* wishes to monitor in order to detect potential patterns of misuse in sport.

**National Anti-Doping Organization (NADO):** The entity(ies) designated by each country as possessing the primary authority and responsibility to adopt and implement anti-doping rules, direct the collection of *Samples*, manage test results, and conduct *Results Management* at the national level. If this designation has not been made by the competent public authority(ies), the entity shall be the country's *National Olympic Committee* or its designee.

**National Olympic Committee (NOC):** The organization recognized by the International Olympic Committee. The term *NOC* shall also include the National Sport Confederation in those countries where the National Sport Confederation assumes typical *National Olympic Committee* responsibilities in the anti-doping area.



**Out-of-Competition (OOC):** Any period which is not *In-Competition*.

**Person:** A natural *Person* or an organization or other entity.

**Prohibited List:** The list identifying the *Prohibited Substances* and *Prohibited Methods*.

**Prohibited Method:** Any method so described on the *Prohibited List*.

**Prohibited Substance:** Any substance, or class of substances, so described on the *Prohibited List*.

**Quality Assurance:** Processes aimed at maintaining and improving the quality of Analytical *Testing* Procedures (as further defined in the *International Standard* for Laboratories), i.e., quality control, quality improvement, method development and validation, generation and evaluation of reference population data, analysis of substances included in the *WADA Monitoring Program* as described in *Code* Article 4.5, and any other legitimate *Quality Assurance* process, as determined by *WADA*, aimed at monitoring the validity of Analytical *Testing* Procedures applied to the analysis of *Prohibited Substances* and *Prohibited Methods* for the purposes established in *Code* Article 6.2.

**Results Management:** The process encompassing the timeframe between notification as per Article 5 of the *International Standard* for *Results Management*, or in certain cases (e.g., *Atypical Finding*, *Athlete Biological Passport*, whereabouts failure), such pre-notification steps expressly provided for in Article 5 of the *International Standard* for *Results Management*, through the charge until the final resolution of the matter, including the end of the hearing process at first instance or on appeal (if an appeal was lodged).

Sample or Specimen: Any biological material collected for the purposes of Doping Control.

[Comment to Sample or Specimen: It has sometimes been claimed that the collection of blood or urine Samples violates the tenets of certain religious or cultural groups. It has been determined that there is no basis for any such claim.]

**Signatories:** Those entities signing the *Code* and agreeing to comply with the *Code*, as provided in Article 23.

**Tampering:** Intentional conduct which subverts the *Doping Control* process. *Tampering* shall include, without limitation, offering or accepting a bribe to perform or fail to perform an act, preventing the collection of a *Sample*, affecting or making impossible the analysis of a *Sample*, falsifying documents submitted to an *Anti-Doping Organization* or *Therapeutic Use Exemptions* committee or hearing panel, procuring false testimony from witnesses, committing any other fraudulent act upon the *Anti-Doping Organization* or hearing body to affect *Results Management* or the imposition of *Consequences*, and any other similar intentional interference or *Attempted* interference with any aspect of *Doping Control*.

[Comment to Tampering: For example, this Article would prohibit altering identification numbers on a Doping Control Form during Testing, breaking the B bottle at the time of B Sample analysis, altering a Sample by the addition of a foreign substance, or intimidating or Attempting to intimidate a potential witness or a witness who has provided testimony or information in the Doping Control process. Tampering includes misconduct which occurs during the Results Management process. See Article 10.9.3.3. However, actions taken as part of a Person's legitimate defense to an anti-doping rule violation charge shall not be considered Tampering. Offensive conduct towards a Doping Control official or other Person involved in Doping Control which does not otherwise constitute Tampering shall be addressed in the disciplinary rules of sport organizations.]



**Target Testing:** Selection of specific *Athletes* for *Testing* based on criteria set forth in the *International Standard* for *Testing*.

**Technical Document (TD):** A document adopted and published by *WADA* from time to time containing mandatory technical requirements on specific anti-doping topics as set forth in an *International Standard*.

**Technical Letter (TL):** Mandatory technical requirements provided by *WADA* from time to time (ad-hoc) to address particular issues relating to the analysis, interpretation and reporting of specific *Prohibited Substance(s)* and/or *Prohibited Method(s)* or to the application of specific Laboratory or *Athlete Biological Passport* Laboratory procedures.

**Testing:** The parts of the *Doping Control* process involving test distribution planning, *Sample* handling, and *Sample* transport to the laboratory.

**Therapeutic Use Exemption:** A Therapeutic Use Exemption allows an Athlete with a medical condition to use a Prohibited Substance or Prohibited Method, but only if the conditions set out in Article 4.4 and the International Standard for Therapeutic Use Exemptions are met.

**Use:** The utilization, application, injection or consumption by any means whatsoever of any *Prohibited Substance* or *Prohibited Method*.

WADA: The World Anti-Doping Agency.

# II. Defined Terms Specific to the ISL

<u>ABP Laboratory</u>: A laboratory not otherwise accredited by *WADA*, which is approved by the *WADA* Executive Committee to apply <u>Analytical Methods</u> and processes in support of the Hematological Module of the *Athlete Biological Passport* (ABP) program.

[Comment to <u>ABP Laboratory</u>: To facilitate the comprehension and interpretation of ISL provisions, when requirements apply to both <u>Laboratories</u> and <u>ABP Laboratories</u>, both are referred to as "Laboratory(-ies)". If, instead, provisions apply exclusively to either <u>Laboratories</u> or <u>ABP Laboratories</u>, the specific definition is used as applicable.

Instead, when the term "laboratory" is used, it implies laboratories that are neither WADA-accredited nor ABP approved.]

<u>Aliquot</u>: A portion of the *Sample* of biological fluid (e.g., urine, blood) obtained from the *Athlete* that is used in the analytical process.

<u>Analyte</u>: Also known as or referred to as a substance, compound or measurand, which is analyzed and/or determined in a biological matrix using an <u>Analytical Testing Procedure</u> (<u>ATP</u>) performed under controlled analytical and laboratory conditions. For anti-doping purposes, an <u>Analyte</u> may be a <u>Prohibited Substance</u>, a <u>Metabolite</u> or degradation product of a <u>Prohibited Substance</u>, or a <u>Marker</u> of the <u>Use</u> of a <u>Prohibited Substance</u> or <u>Prohibited Method</u>.

<u>Analytical Method</u>: <u>Analytical Testing Procedure</u> (<u>ATP</u>) or <u>Test Method</u>.

<u>Analytical Testing</u>: The parts of the *Doping Control* process performed at the Laboratory, which include *Sample* handling, analysis and reporting of results.

<u>Analytical Testing Procedure</u> (<u>ATP</u>): A <u>Fit-for-Purpose</u> procedure, as demonstrated through method validation, which is used to detect, identify and/or quantify property values of <u>Analyte(s)</u> in a <u>Sample</u> for <u>Doping Control</u> purposes in accordance with the ISL and relevant ISL <u>Technical</u>



*Documents, Technical Letters* or <u>Laboratory Guidelines</u>. An <u>Analytical Testing Procedure</u> is also referred to or known as an <u>Analytical Method</u> or <u>Test Method</u>.

<u>Analytical Testing Restriction</u> (<u>ATR</u>): Restriction on a <u>Laboratory</u>'s application of specified <u>Analytical Testing Procedure(s)</u> (<u>ATP</u>) or the analysis of a particular class(es) of <u>Prohibited Substances</u> or <u>Prohibited Methods</u> to <u>Samples</u>, as determined by <u>WADA</u>.

**Applicant ABP laboratory**: Laboratory applying to become a <u>Candidate ABP</u> laboratory for WADA approval for the ABP.

**Applicant laboratory**: Laboratory applying to become a <u>Candidate laboratory</u> for *WADA* accreditation.

<u>Athlete Passport Management Unit</u> (<u>APMU</u>): A unit, associated with a <u>Laboratory</u>, composed of a *Person* or *Persons* responsible for the timely management of *Athlete Biological Passports* in *ADAMS* on behalf of the Passport Custodian.

<u>Candidate ABP laboratory</u>: Laboratory in the candidate phase of WADA approval for the ABP, as approved by the WADA Executive Committee.

<u>Candidate laboratory</u>: Laboratory in the candidate phase of *WADA* accreditation, as approved by the *WADA* Executive Committee.

<u>Certificate of Analysis</u> (<u>CoA</u>): The material produced by a Laboratory upon request by an <u>APMU</u>, <u>Expert Panel</u>, or <u>WADA</u> as set forth in the ISL <u>Technical Document</u> on <u>Laboratory Documentation</u> <u>Packages</u> (ISL <u>TD LDOC</u>), to support an analytical result for a <u>Sample</u> that is judged to confirm the baseline level of a urine or blood <u>Marker</u> of the <u>ABP</u>.

<u>Certified Reference Material</u> (<u>CRM</u>): <u>Reference Material</u>, characterized by a metrologically valid procedure for one or more specified properties, which is accompanied by a certificate that provides the value of the specified property, its associated <u>Measurement Uncertainty</u>, and a statement of metrological traceability.

<u>Confirmation Procedure</u> (<u>CP</u>): An <u>Analytical Testing Procedure</u> (<u>ATP</u>) that has the purpose of confirming the presence (<u>Qualitative Procedure</u>) and/or determining the property value (<u>Quantitative Procedure</u>) of one or more <u>Analytes</u> in a <u>Sample</u>.

External Quality Assessment Scheme (EQAS): Program for Quality Assessment of Laboratory performance. The EQAS includes the periodical distribution of urine, blood or DBS Samples to Laboratories and Probationary laboratories by WADA, to be analyzed for the presence or absence of Analytes. The EQAS includes also the provision of blood Samples to Laboratories and ABP Laboratories for the analysis of the ABP blood Markers (hematological, endocrine and steroidal ABP Markers).

<u>Fit(ness)-for-Purpose</u>: Suitable for the intended purpose and in conformity with the ISO/IEC 17025 or ISO 15189, as applicable, the ISL and relevant ISL *Technical Documents* and *Technical Letters*.

Flexible Scope of ISO/IEC 17025 Accreditation: Status of laboratory accreditation, which allows a Laboratory to make and implement restricted modifications in the Scope of ISO/IEC 17025 Accreditation between Assessments by the Accreditation Body.



[Comment to <u>Flexible Scope of ISO/IEC 17025 Accreditation</u>: The concept of flexible Scope of Accreditation may also be applied, as determined by the Accreditation Body, to the analysis of the Markers of the Hematological Module of the ABP when included in the Scope of ISO 15189 Accreditation of <u>ABP Laboratories</u>.]

<u>Further Analysis</u>: <u>Further Analysis</u> occurs when a <u>Laboratory</u> conducts additional analysis on an "A" <u>Sample</u> or a "B" <u>Sample</u> after the final analytical result for that "A" <u>Sample</u> or that "B" <u>Sample</u> has been reported by the <u>Laboratory</u>. Any <u>Further Analysis</u> initiated by an <u>Anti-Doping</u> <u>Organization</u> (ADO) shall be conducted at the expense of the ADO.

Independent Witness: A Person, invited by the <u>Testing Authority</u> (<u>TA</u>), the <u>Laboratory</u> or <u>WADA</u> to witness the opening and initial aliquoting of an <u>Athlete's</u> "B" <u>Sample</u>, or the splitting of an "A" or "B" <u>Sample</u>. An <u>Independent Witness</u> shall not be an employee or have a personal financial relationship with the <u>Athlete</u> or their representative(s), the <u>Laboratory</u>, the <u>Sample Collection Authority</u> (<u>SCA</u>), the <u>TA</u> / <u>Delegated Third Party</u> (<u>DTP</u>) / <u>Results Management Authority</u> (<u>RMA</u>) or <u>WADA</u>, as applicable. However, this does not apply to <u>Persons</u> from other areas of the <u>Laboratory</u>'s umbrella organization (e.g., other laboratories within the university or research institution). The Independent Witness may be indemnified for their service.

<u>Initial Testing Procedure</u> (<u>ITP</u>): An <u>Analytical Testing Procedure</u> (<u>ATP</u>) whose purpose is to screen for the possible presence of an <u>Analyte(s)</u> or for elevated property value(s) of an <u>Analyte(s)</u> in a <u>Sample</u>.

**<u>Laboratory</u>**: A *WADA*-accredited Laboratory, as approved by the *WADA* Executive Committee.

[Comment to <u>Laboratory</u>: To facilitate the comprehension and interpretation of ISL provisions, when requirements apply to both <u>Laboratories</u> and <u>ABP Laboratories</u>, both are referred to as "Laboratory(-ies)". If, instead, provisions apply exclusively to either <u>Laboratories</u> or <u>ABP Laboratories</u>, the specific definition is used as applicable.

Instead, when the term "laboratory" is used, it implies laboratories that are neither WADA-accredited nor ABP approved.]

<u>Laboratory Chain of Custody</u> (<u>LCOC</u>): Information registered by the Laboratory, in accordance with ISL <u>TD LCOC</u> requirements, to record, in writing or electronically, the chronological traceability of custody (by authorized <u>Person(s)</u> or upon storage) and movement of the <u>Sample</u> and any <u>Aliquot</u> of the <u>Sample</u> taken for <u>Analytical Testing</u>.

<u>Laboratory Documentation Package</u> (<u>LDOC</u>): The material produced by a <u>Laboratory</u> upon request by the <u>Results Management Authority</u> (<u>RMA</u>) or <u>WADA</u>, as set forth in the ISL <u>Technical Document</u> on <u>Laboratory Documentation Packages</u> (ISL <u>TD LDOC</u>), to support an analytical result such as an <u>Adverse Analytical Finding</u> (<u>AAF</u>) or an <u>Atypical Finding</u> (<u>ATF</u>).

[Comment to <u>Laboratory Documentation Package</u>: <u>Laboratories</u> and <u>ABP Laboratories</u> may also produce ABP <u>LDOC</u>s, if requested by the <u>RMA</u>, <u>Passport Custodian</u>, <u>APMU</u> or WADA to support the compilation of an <u>ABP Documentation</u> Package.]

<u>Laboratory Expert Advisory Group</u> (<u>Lab EAG</u>): Group of laboratory experts responsible for providing advice, recommendations and guidance to *WADA* with respect to the overall management of anti-doping Laboratory accreditation and *ABP* approval processes, the production and maintenance of the ISL and associated normative documents (ISL *Technical Documents, Technical Letters*, <u>Laboratory Guidelines</u> and <u>Technical Notes</u>), and the monitoring of Laboratory performance.

[Comment to <u>Laboratory Expert Advisory Group</u>: The <u>Lab EAG</u>'s membership composition and Terms of Reference can be found on WADA's website.]



<u>Laboratory Guidelines</u> (<u>LGs</u>): Recommendations of <u>Laboratory</u> best practice provided by *WADA* to address specific <u>Laboratory</u> operations or to provide technical requirements and guidance on interpretation and reporting of results for the analysis of specific *Prohibited Substance(s)* and/or *Prohibited Method(s)* or on the application of specific <u>Laboratory</u> procedures.

<u>Limit of Detection</u> (<u>LOD</u>): Parameter of <u>Qualitative Procedure</u> technical performance. Lowest concentration of an <u>Analyte</u> in a <u>Sample</u> that can be routinely detected, but not necessarily identified or quantified, under the stated <u>Test Method</u> conditions.

[Comment to <u>Limit of Detection</u>: When using chromatographic-mass spectrometric <u>Analytical Methods</u>, the <u>LOD</u> is expressed as the minimum concentration of the <u>Analyte</u> that can be routinely detected (but not necessarily identified or quantified) in representative samples at a 95% detection rate.]

<u>Limit of Identification</u> (<u>LOI</u>): Parameter of technical performance of chromatographic-mass spectrometric confirmatory <u>Qualitative Procedures</u>. For a given <u>Analyte</u> (for which a <u>Reference Material</u> is available), the <u>LOI</u> of a <u>Test Method</u> shall be determined at 95% identification rate and shall be less than the corresponding <u>Minimum Required Performance Level</u> (<u>MRPL</u>).

[Comment to <u>Limit of Identification</u>: Since the <u>LOI</u> is an estimation of the identification rate at 95% probability obtained by the <u>Laboratory</u> during <u>Test Method</u> validation, the <u>Laboratory</u> may report a finding below the validated <u>LOI</u> as an Adverse Analytical Finding (AAF) or an Atypical Finding (ATF), as applicable, when the <u>Analyte</u> is identified in the Sample according to the criteria established in the ISL Technical Document on Chromatographic-Mass Spectrometric Identification Criteria (ISL TD IDCR).]

<u>Limit of Quantification</u> (<u>LOQ</u>): Parameter of <u>Quantitative Procedure</u> technical performance. Lowest concentration of an <u>Analyte</u> in a <u>Sample</u> that can be quantitatively determined with acceptable intermediate precision and bias (i.e., acceptable <u>Measurement Uncertainty</u>) under the stated Test Method conditions.

<u>Major Event</u>: A continental, regional or other *International Event*, conducted under a *Major Event Organization* functioning as a ruling body (e.g., the Olympic and Paralympic Games, Pan American Games), for which the *Testing* program significantly exceeds the routine operational capabilities of the <u>Laboratory</u> (e.g., number of *Samples*, results reporting times, <u>Analytical Testing</u> menu).

<u>Measurement Uncertainty (MU)</u>: Doubt about the property value (e.g., concentration, ratio, score, or any other measurable analytical variable, as defined by *WADA*) that remains after making a measurement using a <u>Quantitative Procedure</u>.

<u>Minimum Required Performance Level</u> (<u>MRPL</u>): Minimum analytical requirement of <u>Laboratory</u> technical performance established by *WADA*. Minimum concentration at which a <u>Laboratory</u> is expected to consistently detect and confirm the presence of an <u>Analyte</u> in <u>Samples</u> during the routine daily operation of the <u>Laboratory</u>. Individual <u>Laboratories</u> may and are expected to achieve better performance [see ISL <u>Technical Documents</u>: ISL <u>TD MRPL</u>, ISL <u>TD EPO</u>, ISL <u>TD DBS</u>).

<u>Negative Finding</u>: A test result from a <u>Laboratory</u> which, in accordance with the effective ISL and/or relevant ISL *Technical Documents* and/or ISL *Technical Letters*, concludes that no <u>Analyte</u> included in the requested <u>Analytical *Testing*</u> menu was found in a <u>Sample</u> based on the applied Initial <u>Testing</u> Procedures (ITPs) and/or Confirmation Procedures (CPs).

**Non-Threshold Substance:** A *Prohibited Substance* for which a <u>Threshold</u> has not been established and for which, therefore, the identification of an <u>Analyte</u> of the *Prohibited Substance* in a *Sample* constitutes an *Adverse Analytical Finding (AAF)*. Some <u>Non-Threshold Substances</u> have an associated *Minimum Reporting Level (MRL)*.



<u>Presumptive Adverse Analytical Finding</u> (<u>PAAF</u>): The status of a <u>Sample</u> test result from the <u>Initial Testing Procedure</u> (<u>ITP</u>) which represents a suspicious finding, but for which a <u>Confirmation Procedure</u> (<u>CP</u>) to render a conclusive test result has not yet been performed.

**<u>Probationary laboratory</u>**: Laboratory in the probationary phase of *WADA* accreditation, as approved by the Lab EAG.

<u>Provisional Laboratory Suspension</u>: Temporary <u>Suspension</u> of a Laboratory's *WADA* accreditation or *ABP* approval pending a final decision by *WADA* regarding its accreditation or approval status.

<u>Qualitative Procedure</u>: An <u>Analytical Testing Procedure</u> (<u>ATP</u>) that has the purpose of screening for (<u>Initial Testing Procedure</u>) or confirming the presence of (<u>Confirmation Procedure</u>), according to established identification criteria, one or more <u>Analytes</u> in a <u>Sample</u>.

<u>Quantitative Procedure</u>: An <u>Analytical Testing Procedure</u> (<u>ATP</u>) that has the purpose of determining the property value (e.g., concentration, ratio, score, or any other measurable analytical variable, as defined by *WADA*) of one or more <u>Analytes</u> in a <u>Sample</u>.

**Reference Collection** (RC): A sample of known origin that may be used in the determination of the identity of a substance. For example, a well-characterized sample obtained from a controlled administration or from *in vitro* studies in which the presence of the substance of interest has been established.

<u>Reference Material</u> (<u>RM</u>): Reference Substance or Reference Standard, which is sufficiently characterized, homogeneous and stable with respect to one or more specified properties and that has been established to be fit for its intended use in an Analytical *Testing* Procedure (ATP).

**Revocation:** The permanent withdrawal of a Laboratory's WADA accreditation or ABP approval.

Root Cause Analysis (RCA): An investigation to identify one or more fundamental cause(s) of a nonconformity based on the collection of objective evidence from an assessment of the likely factors that led to the nonconformity. The removal of a root cause factor prevents the recurrence of the nonconformity; in contrast, removing a causal factor can improve the outcome, but it does not prevent the recurrence of the problem with certainty.

<u>Selectivity</u>: The ability of the <u>Analytical Method</u> to determine, accurately and specifically, the <u>Analyte</u> of interest in the presence of other components in a <u>Sample</u> matrix under the stated conditions of the <u>Analytical Method</u>.

<u>Suspension</u>: The temporary withdrawal of a Laboratory's *WADA* accreditation or *ABP* approval.

<u>Technical Note</u> (<u>TN</u>): Technical guidance provided by *WADA* to <u>Laboratories</u> on the performance of specific methods or procedures.

**Test Method:** Analytical *Testing* Procedure (ATP), Analytical Method.

<u>Threshold</u>: The maximum permissible level of a property value (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*) for an <u>Analyte(s)</u> of a <u>Threshold Substance</u> in a <u>Sample</u>. The <u>Threshold</u> is used to establish the <u>Decision Limit (DL)</u> for reporting an <u>Adverse Analytical Finding (AAF)</u> for a Threshold Substance.



<u>Threshold Substance</u>: A *Prohibited Substance* for which the identification and quantitative determination of a property value (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*) of an <u>Analyte</u> in excess of a pre-determined *Decision Limit* (*DL*), or, when applicable, the establishment of an exogenous origin, constitutes an *Adverse Analytical Finding* (*AAF*). <u>Threshold Substances</u> are identified as such in the ISL <u>Technical Document</u> on <u>Decision Limits</u> (ISL <u>TD DL</u>) and other applicable ISL <u>Technical Documents</u>.

## III. Defined Terms from the International Standard for Results Management used in the ISL

<u>Passport</u>: A collation of all relevant data unique to an individual *Athlete* that may include longitudinal profiles of *Markers*, heterogeneous factors unique to that particular *Athlete* and other relevant information that may help in the evaluation of *Markers*.

<u>Results Management Authority</u> (<u>RMA</u>): The *Anti-Doping Organization* responsible for conducting *Results Management* in a given case.

# IV. Defined Terms from the International Standard for Testing that are used in the ISL

Passport Custodian: The Anti-Doping Organization responsible for Results Management of the Athlete's Passport and for sharing any relevant information associated to that Athlete's Passport with other Anti-Doping Organization(s) which share Testing jurisdiction over the Athlete. Passport custody is attributed to the Testing Authority that first tests an Athlete, except (i) when the Athlete is first tested by a Major Event Organizer, or (ii) when a National Anti-Doping Organization first tests an Athlete with a different sport nationality, in which cases Passport custody is attributed to the National Anti-Doping Organization corresponding to the sport nationality of the Athlete. Passport custody can be transferred by the Passport Custodian to another Anti-Doping Organization with Testing jurisdiction over the Athlete. Reasons for transferring Passport custody include, but are not limited to, a change in Athlete level, more frequent Testing by another Anti-Doping Organization, or be based on an agreement between Anti-Doping Organizations with Testing jurisdiction over the Athlete.

<u>Sample Collection Authority</u> (<u>SCA</u>): The organization that is responsible for the collection of Samples in compliance with the requirements of the International Standard for Testing, whether (1) the <u>Testing Authority</u> itself; or (2) a Delegated Third Party to whom the authority to conduct Testing has been granted or sub-contracted. The <u>Testing Authority</u> always remains ultimately responsible under the Code for compliance with the requirements of the International Standard for Testing relating to collection of Samples.

<u>Sample Collection Session</u> (<u>SCS</u>): All of the sequential activities that directly involve the *Athlete* from the point that initial contact is made until the *Athlete* leaves the <u>Doping Control Station</u> after having provided their <u>Sample(s)</u>.

<u>Suitable Volume of Urine for Analysis</u>: A minimum of 90 mL, whether the <u>Laboratory</u> will be analyzing the *Sample* for all or only some *Prohibited Substances* or *Prohibited Methods*.

<u>Test Distribution Plan</u> (<u>TDP</u>): A document written by an *Anti-Doping Organization* that plans *Testing* on *Athletes*, in accordance with the requirements of Article 4.7 (of the *International Standard* for *Testing*).

<u>Testing Authority</u> (<u>TA</u>): The Anti-Doping Organization that authorizes Testing on Athletes it has authority over. It may authorize a Delegated Third Party to conduct Testing pursuant to the



authority of and in accordance with the rules of the *Anti-Doping Organization*. Such authorization shall be documented. The *Anti-Doping Organization* authorizing *Testing* remains the <u>Testing Authority</u> and ultimately responsible under the *Code* to ensure the *Delegated Third Party* conducting the *Testing* does so in compliance with the requirements of the *International Standard* for *Testing*.