



WADA Technical Document for Sport Specific Analysis —~~TD2014SSA~~

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1. Introduction

As part of WADA's move towards ensuring *Anti-Doping Organizations (ADOs)* implement more intelligent and effective anti-doping programs, Article 5.4.1 of the 2015 World Anti-Doping Code (WADC2015) states – "WADA, in consultation with International Federations and other *Anti-Doping Organizations*, will adopt a Technical Document under the *International Standard for Testing and Investigations (ISTI)* that establishes by means of a risk assessment which *Prohibited Substances* and/or *Prohibited Methods* are most likely to be abused in particular sports and sports disciplines."

This Technical Document for Sport Specific Analysis (TDSSA) is intended to ensure that the *Prohibited Substances* within the scope of the TDSSA ~~that are deemed to be at risk of abuse in certain sports/disciplines and other tools that support the detection of Prohibited Substances and/or identify the Use of Prohibited Methods such as the Athlete Biological Passport~~ are subject to an appropriate and consistent level of analysis ~~and adoption~~ by all ADOs that conduct *Testing* in those sports/disciplines ~~deemed at risk~~. Compliance with the TDSSA is mandatory under the WADC2015.

The development of the TDSSA is based on a scientific approach linking physiological and non-physiological demand of *Athlete* performance with the potential ergogenic benefit of those *Prohibited Substances* ~~within the scope of the TDSSA~~. The TDSSA ~~will complement~~s other anti-doping tools and programs such as the *Athlete Biological Passport (ABP)*, intelligence gathering and investigations.

A Minimum Level of Analysis (MLA) is specified for the *Prohibited Substances* within the scope of the TDSSA for each sport/discipline, expressed as a percentage of the total number of eligible Tests and based on a Physiological Risk Assessment of that sport/~~or~~ discipline. The full MLA ~~percentage~~ list ~~by~~for each sport/discipline is provided in Appendix~~es~~ 1 and 2 of this Technical Document.

The MLA ~~percentage~~ applies to *Testing* conducted by all ADOs on *International-Level Athletes* and *National-Level Athletes* as defined by the applicable ADO.

The MLAs for each sport/discipline should not be considered as the precise level of analysis that an ADO should implement in that sport/discipline. ADOs are encouraged to exceed the MLAs where they believe it is appropriate to do so, based on their Risk Assessment. ADOs are also

encouraged to take advantage of Article 6.4.1 of the WADC2015, which provides for *ADOs* to request that Laboratories analyze their *Samples* using more extensive menus than those prescribed in this Technical Document.

The full *Prohibited List* remains applicable to all sports, including sports that are not covered by the TDSSA and/or for which the MLA is zero. Any *ADO* may, at its own discretion, request a ~~WADA-accredited~~ Laboratory to analyze any *Sample* for the *Prohibited Substances* within the scope of the TDSSA at any time.

~~WADA-accredited~~ Laboratories under Article 6.4.3 of the WADC2015 may also, at their own initiative and expense, analyze *Samples* for *Prohibited Substances* and/or *Prohibited Methods* not included in the *Sample* analysis menu described in the TDSSA or specified by the Testing Authority (TA).

In addition to the mandatory provisions of this Technical Document which include Appendices 1 and 2, WADA has developed ~~a series of~~ supporting documents intended to assist with the implementation and application of the TDSSA. These resources are included herein as Supporting Documents A and B but are not to be considered appendices of the TDSSA itself as these will be amended from time to time to reflect the ongoing needs of stakeholders and evolving best practice.

Defined terms in the *Code*, *International Standards* and the TDSSA can be found in Article 10 of the TDSSA.

2. Objectives of the TDSSA

- 2.1. To protect clean *Athletes* by establishing MLAs for those *Prohibited Substances* within the scope of the TDSSA that are at risk of abuse in particular sports or disciplines.
- 2.2. To enhance the effectiveness of anti-doping programs.
- 2.3 To create accountability for stakeholders including International Federations (IFs), *National Anti-Doping Organizations (NADOs)*, *Major Event Organizations (MEOs)* and other TAs that conduct *Testing* on such sports and disciplines by implementing the required MLAs.
- 2.4 To maintain and build Laboratory capacity and proficiency for the detection of those *Prohibited Substances* within the scope of the TDSSA.

3. Scope

- 3.1. Level of *Athlete*

The ~~requirements of the~~ TDSSA ~~are mandatory for~~ applies to Testing conducted on International-Level Athletes and National-Level Athletes (as defined by IFs and NADOs, respectively). *ADOs* may also apply the TDSSA to other *Athletes* within their jurisdiction. For the purpose of meeting the MLAs, only analyses conducted on *International-Level Athletes* and *National-Level Athletes* will be used to assess ~~an ADO's~~ compliance with the TDSSA. All *Athletes* ~~that who~~ compete in Major Events under the jurisdiction of a *MEO* will, for the purpose of the TDSSA, be presumed to be *International-Level Athletes* or *National-Level Athletes*.

3.2. Prohibited Substances on the TDSSA

The Prohibited Substances within the scope of the TDSSA are normally not part of a routine standard urine analysis and require specialized analysis methods.

~~From the Prohibited List, t~~The Prohibited Substances that are within the current scope of the TDSSA are:

- Erythropoiesis Stimulating Agents (ESAs). Section S2.1.1
- Growth Hormone (GH). Section S2.5
- Growth Hormone Releasing Factors (GHRFs) including Growth Hormone Releasing Hormone (GHRH) and its analogues, Growth Hormone Secretagogues (GHS) and Growth Hormone Peptides (GHRPs). Section S2.5

With effect on 1 January 2017, GH and GHRFs will be subject to separate –MLAs. The MLAs for GH and GHRFs are each the same as the combined GH/GHRF MLA that was previously attributed to the sport/discipline. For example, if the GH/GHRF combined MLA was 10% then it now becomes 10% for GH and 10% for GHRFs.

Compliance with the GHRFs MLAs and GH MLAs will be mandatory from 1 January 2017 and 1 January 2018 respectively. In 2017 ADOs should maintain or preferably exceed their existing volume of GH analysis whilst putting in place the necessary measures to comply with the GH MLAs in 2018.

~~The Prohibited Substances within the scope of the TDSSA are normally not part of a routine standard urine analysis and require specialized analysis methods.~~

Information ~~about and guidance on those~~the Prohibited Substances described above and guidance on Testing is provided within the TDSSA Testing Guides.

3.3 Implementation of the ABP haematological module

~~The TDSSA does not mandate the use of the ABP. The ABP haematological module plays an important part in the targeting of Athletes for Testing, the detection of ESAs and prosecution of anti-doping rule violations for Use of blood doping methods. Therefore, to further protect clean Athletes and enhance the global effectiveness of Testing programs, effective 1 January 2018 the implementation of an ABP haematological module for sports and disciplines with an ESAs MLA equal to or greater than 30% will be a **mandatory** component of compliance with the TDSSA. –ADOs should prepare for the implementation of the ABP haematological module (as necessary) prior to January 2018.~~

~~These Implementation of the ABP haematological module for those sports or disciplines for which the MLA for ESAs is 15% or greater are is **strongly recommended**. to implement the ABP haematological module in the relevant discipline(s) in order to enhance the quality of their anti-doping program. However, Those sports/disciplines for which the MLA for ESAs is 10% are encouraged to consider the benefits of implementing the ABP haematological module.~~

~~Those sports or disciplines for which the MLA for ESAs is 15% or greater are **strongly recommended** to implement the ABP haematological module in the relevant discipline(s) in order to enhance the quality of their anti-doping program.~~

Implementation of the *ABP* haematological module also enables *ADOs* to seek a reduction in the MLA percentage for ESAs, ~~if they subject to~~ meeting the criteria outlined in Article 6 of the TDSSA.

4. MLA for Sports and Disciplines

Consistent with Article 5.4.1 of the WADC2015, *WADA* has consulted with IFs and other *ADOs* in the development of the TDSSA.

MLAs for sports/disciplines are located at:

- **Appendix 1** – Minimum Levels of Analysis for Sports and Disciplines of Olympic, IOC Recognized and Non-Recognized International Federations¹ ~~and Minimum Levels of Analysis (listed in alphabetical order)~~
- **Appendix 2** – Minimum Levels of Analysis for Sports and Disciplines for Athletes with an Impairment ~~and Minimum Levels of Analysis (listed in alphabetical order)~~

5. Test Distribution Planning and MLA Percentages

5.1. Test Distribution Plan (TDP)

In accordance with Article 4.2 of the ~~International Standard for Testing and Investigations (ISTI)~~, each *ADO* must undertake and document in good faith a Risk Assessment² as part of the development of an effective TDP under its jurisdiction.

The TDSSA is one important and mandatory part of the Risk Assessment and the overall TDP development process. Once a TDP is developed, each *ADO* will be responsible for managing the implementation of the TDSSA throughout their *Testing* year by applying the required MLAs in a targeted manner to defined *Athletes*.

5.2. Applying MLAs to the TDP

Once an *ADO* has conducted the required Risk Assessment and assigned Tests to a sport/~~or~~ discipline within its TDP, each *ADO* shall apply the prescribed MLA to the number of Tests allocated to each sport/~~or~~ discipline to determine the number of analyses required for each *Prohibited Substance* category as prescribed in the TDSSA.

One Test includes any number of *Samples* that may be collected from one *Athlete* during a single Sample Collection Session. For example, a Sample Collection Session in which one urine *Sample* and two blood *Samples* are collected will count as one Test.

As a further example in applying the MLA to a TDP, if an *ADO's* TDP for a sport/discipline consists of 100 Tests and its MLAs are 60% for ESAs, ~~and 10% for GH~~ and 10% for ≠ GHRFs, then the minimum number of analyses an ADO should distribute these analyses conduct is as follows:

- 60% ESAs analyses to be conducted in either urine or blood;

¹ Includes only those non-IOC recognized sports that are members of the Alliance of Independent recognized Members of Sport (AIMS)

² ADOs will be required to submit a documented risk assessment as part of WADA's compliance monitoring process in 2017

- ~~10% GH/GHRFs analyses in blood (serum) for GH; and~~
- ~~10% GHRFs analysis or in urine for GHRFs.~~

ADOs can request multiple analyses on *Samples* collected during the same *Sample Collection Session*. In the example above, the absolute minimum number of *Sample Collection Sessions* could be 60. ~~This is on the basis that the required number of GH and GHRF analyses are performed on those Athletes who are also being tested for ESAs.~~

The remaining 40 Tests from the 100 Tests would then be subject to either the standard routine urine analysis or a greater level of analysis, which ADOs are encouraged to do.

Any MLA that does not equal a whole number when applied to total Tests, shall be rounded up to the nearest whole number. For example, if five Tests are planned in a particular sport/discipline, for which the ESA MLA is 10%, the ADO will be required to conduct a minimum of one ESA analysis.

Where the ADO has intelligence that would lead to a more effective use of the one analysis on an athlete in a sport/discipline of higher risk than the ADO may reallocate that analysis.

Compliance with ~~Whilst~~ the MLAs ~~is~~are mandatory, ~~overall,~~ However, the selection of the Athletes to be tested, the selection of the *Sample* matrices collected (*i.e.* urine or blood) and the timing of those Tests remain at the discretion of the ADO.

Achieving the MLAs for the applicable sports or disciplines should be based on quality of *Testing*, and not simply reaching a required number of Tests. Thus, decisions should be based on intelligence where possible and may include *ABP* information, whereabouts, timing of competition periods, and any other information that may affect the pattern and the timing of *Use of the Prohibited Substances* within the scope of the TDSSA. The aim is to test the right Athletes for the right *Prohibited Substance(s)* at the right time.

~~As part of WADA's development and monitoring of ADOs' anti-doping programs, WADA will monitor each ADO's implementation of the TDSSA through ADAMS³ and will review through a wider assessment of an ADO's compliance with the ISTI how Tests are being applied, on which Athletes and at what time.~~

Further guidance on the implementation of the TDSSA within a *TDP* can be found in the WADA "*Guidelines for Implementing an Effective Testing Program*", the TDSSA Testing Guides and ~~in~~ the Frequently Asked Questions (FAQs) located in Supporting Document B.

5.3. Sports ~~and~~ Disciplines with ~~out~~ defined MLAs of zero in the TDSSA

Those sports ~~or~~ disciplines that are determined to be at minimal physiological risk to the abuse of the *Prohibited Substances* within the scope of the TDSSA and for which ~~do not have~~ the associated MLA is zero, shall ~~be~~ remain subject to *In-Competition and Out-of-Competition* routine standard urine analysis menus.

²⁴ ~~WADA may require those ADOs that are not currently ADAMS users to provide additional reports to validate their compliance with the TDSSA from time to time.~~

However, ~~a-such~~ sports or disciplines may be subject to tested Testing at any time by any ADO for those *Prohibited Substances* within the scope of the TDSSA ~~and-including~~ at a level greater than listed.

6. Seeking a reduction in the MLAs

Article 6.4.2 of the WADC2015 affords ADOs the opportunity to request that Laboratories analyze *Samples* with less extensive menus than those prescribed by the TDSSA. Such requests must satisfy WADA that “*because of the particular circumstances of their country or sport (...) less extensive analysis would be appropriate*”. Article 4.7.2 of the ~~International Standard for Testing and Investigations (ISTI)~~ goes further in declaring that WADA may approve reductions only when it is satisfied that such reductions “*will lead to the most intelligent, effective and efficient use of available Testing resources*”.

Compliance with the TDSSA alone is not sufficient to demonstrate intelligent, effective and efficient use of available resources. Consequently, the implementation of other ‘intelligent *Testing*’ strategies will be required before a reduction in MLAs can be considered and approved. This includes but is not limited to; the implementation of the haematological module of the ABP, target testing based on recommendations from an Athlete Passport Management Unit (APMU), the gathering and use of intelligence to inform Testing and conduct investigations, the sharing of Testing information with other ADOs or other sport specific, intelligent or innovative anti-doping strategies.

WADA may approve a reduction of up to 50% of the MLA for ESAs based on its decision as to whether the required criteria have been met.

~~Specifically,~~ WADA shall consider the following criteria when evaluating possible reductions:

6.1 Implementation of the haematological module of the ABP (applies to the MLA for ESAs only).

To be eligible for a reduction based on the adoption of the haematological module of the ABP, the ADO must be able to demonstrate that:

6.1.1. The ABP program of the sport/discipline has been operational for not less than six months;

6.1.2. The ABP program is compliant with the WADA ABP Guidelines and relevant Technical Documents, including:

The implementation of a real-time *Target Testing* process that acts upon the recommendations of an ~~Athlete Passport Management Unit (APMU)~~ or other expert group with reference to ESAs;

6.1.3. All relevant ABP data, including APMU reports, are is available in ADAMS or another system approved by WADA to permit oversight by WADA;

6.1.4 The ABP pool includes the majority of relevant *Athletes* from whom an appropriate number of ABP *Samples* have been collected and analyzed annually as recommended by the ABP Guidelines, an APMU or other expert group.

The magnitude of any reduction will be ~~discussed~~determined ~~betweenby~~ WADA and the ADO taking into account all the circumstances including the level of ESA testing conducted before the implementation of the TDSSA.

~~WADA may approve a reduction of up to 50% of the MLA for ESAs based on its decision as to whether the required criteria have been met.~~

6.2. Particular Circumstances

An application for a reduction in MLA due to particular circumstances may only be made for the *Prohibited Substances* within the scope of the TDSSA.— Such particular circumstances must be clearly outlined and supported with relevant documentation.

The burden is therefore on the ADO to ~~provedemonstrate~~ demonstrate ~~through its application~~ that a reduction in the MLA for a sport ~~/or~~ discipline will lead to the most intelligent, effective and efficient use of available *Testing* resources.

6.3. Application

The process, template application form and the level of information required to support an application for reduction in MLA is provided in Supporting Document A. All applications for reduction must be submitted to WADA in advance.

6.4. Approval Period

~~An approval for a~~ reduction in MLA will ~~be remain~~ remain valid for the ~~duration of the~~ period approved by WADA ~~as long as provided that anyall~~ specific conditions are continually adhered to by the ADO. If any of the conditions change during the approval period, ADOs must notify WADA. ~~WADA may review its approval for reduction of an ADO's MLA at any time.~~

6.4.1 ABP Haematological Module

~~WADA's approval for a reduction of an ADO's MLA for ESAs based on the implementation of an effective ABP haematological module will remain valid as long as the ADO continues to meet any requirements set by WADA as part of the original approval.~~

~~Such approval will roll over year to year subject to any review WADA may wish to conduct.— In such situations ADOs do not need to reapply for approval unless circumstances associated with the original approval change.~~

WADA may review its approval for reduction of an ADO's MLA at any time.

7. Documentation

ADOs shall provide the following information to ensure that WADA can monitor and evaluate an ADO's implementation of the TDSSA accurately:

7.1. Sport and Discipline

To ensure accurate recording of *Sample* analysis by the Laboratories and reporting of statistics in *ADAMS*, Testing Authorities, Sample Collection Authorities and their Doping Control Officers must ensure that the correct sport **and discipline** for the *Athlete* is recorded at a minimum on the Laboratory copy of the *Doping Control Form* (DCF).

7.2. Type of Analysis for each *Sample*

The request for analysis of the *Prohibited Substances* within the scope of the TDSSA shall be provided to the Laboratory for each *Sample* to ensure the Laboratory conducts the correct analyses and accurately reports the results in *ADAMS*. ~~WADA will use ADAMS to assist with the monitoring and evaluation of an ADO's compliance with the TDSSA.~~

The specific type of analysis required for each *Sample* shall be recorded on the chain of custody (or equivalent) documentation shipped with the *Samples* to the Laboratory or by an otherwise effective communication method that has been agreed with the Laboratory responsible for analyzing an *ADO's Samples*.

As per the ISTI the type of analysis requested shall not be recorded on the DCF.

7.3. Level of *Athlete* being Tested

The TDSSA is applicable to *International-Level Athletes* and *National-Level Athletes* as defined by each IF or *NADO*. To assist with the monitoring of an *ADO's TDP* and compliance with the application of the MLAs to those defined *Athletes*, it is recommended that ADOs are required to develop a system to record the level of Athlete or alternatively the level of Athlete can be recorded in ADAMS. ~~This may be on the Doping Control Form, or by other means.~~ *ADOs* may be requested to provide such data to *WADA* as part of *WADA's* wider compliance program. ~~The level of Athlete can be recorded in ADAMS.~~

8. Data Analysis and Monitoring

For TDSSA monitoring and compliance purposes *WADA* will assess whether the *ADO* has ~~met~~ complied with the MLAs based on *Doping Control* statistics contained in ADAMS⁴. This will include, but not be limited to, the following elements:

- Total number of Tests and types of analyses;
- MLA achieved for each *Prohibited Substance* category within the scope of the TDSSA for each sport/discipline;
- Number of *Athletes* tested; ~~and~~
- Laboratory capacity; and
- Implementation of an ABP haematological module for sports/disciplines with an ESA MLA equal to or greater than 30% (from 1 January 2018).

These statistics and any other relevant information will also be used to review and modify the TDSSA over time.

It is expected that *ADOs* will also utilize this data to assist in the review of their TDP and the management of their *Doping Control* programs.

⁴ ADOs can monitor their implementation of the TDSSA through ADAMS using the TDSSA Reporting Guide
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A ~~more comprehensive wider~~ evaluation of ~~an~~ ADO's compliance with the ~~TDSSA~~TDSSA, will ~~be addressed through WADA's compliance and monitoring program, and will~~ include the review of the methods the ADOs applied to the implementation of the ~~Tests to meet the~~ MLAs ~~as outlined in the TDSSA~~TDSSA, including ~~but not limited to the assessment of risk among Athletes within the jurisdiction of the ADO, and the use of information and intelligence in the~~ selection and timing of Tests ~~on defined Athletes and the level of Athlete tested.~~

~~As outlined in Section 6, ADOs may apply for a reduction in the MLAs based on their implementation of an ABP haematological module and/or intelligence led Testing strategies that will lead to the most intelligent, effective and efficient use of available resources. This will be addressed through WADA's wider compliance program.~~

9. Review of TDSSA

As part of an ongoing review process, WADA will monitor the implementation of the TDSSA in consultation with ADOs and ~~WADA accredited laboratories~~ Laboratories. Revisions to the TDSSA may be issued from time to time based on such consultation or for other reasons at WADA's discretion (e.g. revisions to the *Prohibited List* or inclusion of ~~an existing~~ *Prohibited Substance and/or Prohibited Method* that is ~~currently~~ not within the scope of the TDSSA). ~~A suitable lead in time will be provided to ADOs~~ will be provided with prior notice in advance of such modifications taking effect.

10. Definitions

10.1 Defined terms from the WADC2015 that are used in the TDSSA

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.

Anti-Doping Organization: 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*, WADA, 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 *Anti-Doping Organization* 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 *TUEs*. 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 authority who competes below the international or national level, then the *Consequences* set forth in the *Code* (except Article 14.3.2) must 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*.

[Comment: This definition makes it clear that all International-Level Athletes 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, respectively. The definition also allows each National Anti-Doping Organization, if it chooses to do so, to expand its anti-doping program beyond International-Level Athletes or National-Level Athletes to competitors at lower levels of Competition or to individuals who engage in fitness activities but do not compete at all. Thus, a National Anti-Doping Organization could, for example, elect to test recreational-level competitors but not require advance TUEs. But an anti-doping rule violation involving an Adverse Analytical Finding or Tampering, results in all of the Consequences provided for in the Code (with the exception of Article 14.3.2). The decision on whether Consequences apply to recreational-level Athletes who engage in fitness activities but never compete is left to the National Anti-Doping Organization. In the same manner, a Major Event Organization holding an Event only for masters-level competitors could elect to test the competitors but not analyze Samples for the full menu of Prohibited Substances. Competitors at all levels of Competition should receive the benefit of anti-doping information and education.]

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

Code: The World Anti-Doping Code.

Doping Control: All steps and processes from Test Distribution Planning through to ultimate disposition of any appeal including all steps and processes in between such as provision of whereabouts information, Sample collection and handling, laboratory analysis, TUEs, results management and hearings.

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

Event Period: The time between the beginning and end of an *Event*, as established by the ruling body of the *Event*.

In-Competition: Unless provided otherwise in the rules of an International Federation or the ruling body of the *Event* in question, "*In-Competition*" means the period commencing twelve hours 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*.

International-Level Athlete: *Athletes* who compete in sport at the international level, as defined by each International Federation, consistent with the International Standard for Testing and Investigations.

[Comment: Consistent with the International Standard for Testing and Investigations, the International Federation is free to determine the criteria it will use to classify Athletes as International-Level Athletes, e.g., by ranking, by participation in particular International Events, by type of license, etc.

However, it must publish those criteria in clear and concise form, so that Athletes are able to ascertain quickly and easily when they will become classified as International-Level Athletes. For example, if the criteria include participation in certain International Events, then the International Federation must publish a list of those International Events.]

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* issued pursuant to the *International Standard*.

Major Event Organizations: The continental associations of *National Olympic Committees* and other international multisport organizations that function as the ruling body for any continental, regional or other *International Event*.

National Anti-Doping Organization: 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*, the management of test results, and the conduct of hearings 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-Level Athlete: Athletes who compete in sport at the national level, as defined by each *National Anti-Doping Organization*, consistent with the International Standard for Testing and Investigations.

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

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

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

Regional Anti-Doping Organization: A regional entity designated by member countries to coordinate and manage delegated areas of their national anti-doping programs, which may include the adoption and implementation of anti-doping rules, the planning and collection of *Samples*, the management of results, the review of *TUEs*, the conduct of hearings, and the conduct of educational programs at a regional level.

Sample or Specimen: Any biological material collected for the purposes of *Doping Control*.

Target Testing: Selection of specific *Athletes* for *Testing* based on criteria set forth in the International Standard for Testing and Investigations.

Testing: The parts of the *Doping Control* process involving test distribution planning, *Sample* collection, *Sample* handling, and *Sample* transport to the laboratory.

Use: The utilization, application, ingestion, injection or consumption by any means whatsoever of any *Prohibited Substance* or *Prohibited Method*.

WADA: The World Anti-Doping Agency.

10.2 Defined Terms from the International Standards that are used in the TDSSA

Athlete Passport Management Unit (APMU): A unit composed of a *Person* or *Persons*, designated by the *Anti-Doping Organization*, responsible for the administrative management of the Passports advising the *Anti-Doping Organization* for intelligent, *Targeted Testing* liaising with the Expert Panel compiling and authorizing an *Athlete Biological Passport* Documentation Package and reporting Adverse Passport Findings.

Doping Control Officer (or DCO): An official who has been trained and authorized by the *Sample Collection Authority* to carry out the responsibilities given to DCOs in the International Standard for Testing and Investigations.

Doping Control Station: The location where the *Sample Collection Session* will be conducted.

Laboratory(ies): (A) *WADA*-accredited laboratory(ies) applying test methods and processes to provide evidentiary data for the detection of *Prohibited Substances, Methods* and *Markers* on the *Prohibited List*, and if applicable, quantification of a Threshold Substance in *Samples* of urine and other biological matrices in the context of anti-doping activities.

Major Event: A series of individual international *Competitions* conducted together under an international multi-sport organization functioning as a ruling body (e.g., the Olympic Games, Pan American Games) and for which a significant increase of resources and capacity, as determined by *WADA*, is required to conduct *Doping Control* for the *Event*.

Sample Collection Authority: The organization that is responsible for the collection of *Samples* in compliance with the requirements of the International Standard for Testing and Investigations, whether (1) the *Testing Authority* itself; or (2) another organization (for example, a third party contractor) to whom the *Testing Authority* has delegated or subcontracted such responsibility (provided that the *Testing Authority* always remains ultimately responsible under the *Code* for compliance with the requirements of the International Standard for Testing and Investigations relating to collection of *Samples*).

Sample Collection Session: All of the sequential activities that directly involve the *Athlete* from the point that initial contact is made until the *Athlete* leaves the *Doping Control Station* after having provided his/her *Sample(s)*.

Test Distribution Plan: A document written by an *Anti-Doping Organization* that plans *Testing* on *Athletes* over whom it has *Testing Authority*, in accordance with the requirements of Article 4 of the International Standard for Testing and Investigations.

Testing Authority: The organization that has authorized a particular *Sample* collection, whether (1) an *Anti-Doping Organization* (for example, the International Olympic Committee or other *Major Event Organization, WADA, an International Federation, or a National Anti-Doping Organization*); or (2) another organization conducting *Testing* pursuant to the authority of and in accordance with the rules of the *Anti-Doping Organization* (for example, a National Federation that is a member of an International Federation).

10.3 Defined terms specific to the TDSSA

Minimum Level of Analysis (MLA): The number of analyses for the Prohibited Substances within the scope of the TDSSA required to be performed by an *ADO* for each sport/discipline, expressed as a percentage of the total eligible Tests in their TDP.

Physiological Risk Assessment: Analysis of the physiological demands of a sport or discipline against the potential performance enhancing benefit of *Prohibited Substances* on the TDSSA.

Risk Assessment: An all-inclusive assessment of risk (as described in the *International Standard for Testing and Investigations*) of a sport or discipline in relation to doping that considers a wide range of risk factors in addition to physiological risk. Such factors may include doping history, financial gain, gender, age, status of the sport within a country etc.

Test: Any combination of *Sample(s)* collected (and analyzed) from a single *Athlete* in a single *Sample Collection Session*.

Minimum Levels of Analysis for Sports and Disciplines of Olympic, IOC Recognized and Non-IOC Recognized International Federations⁵ and Minimum Levels of Analysis

SPORT	DISCIPLINE	ESAs %	GH & GHRFs % ⁶	GHRFs % ⁶
Aikido	Aikido	5	5	<u>5</u>
Air Sports	All	0	0	<u>0</u>
American Football	American Football	5	10	<u>10</u>
Aquatics	Diving	0	5	<u>5</u>
Aquatics	Swimming Sprint 100m or less	10	10	<u>10</u>
Aquatics	Swimming Long Distance 800m+ <u>or greater</u>	30	5	<u>5</u>
Aquatics	Swimming Middle Distance 200-400m	15	5	<u>5</u>
Aquatics	Open Water	30	5	<u>5</u>
Aquatics	Synchronized Swimming	10	5	<u>5</u>
Aquatics	Water Polo	10	10	<u>10</u>
Archery	All	0	0	<u>0</u>
Athletics	Combined Events	15	15	<u>15</u>
Athletics	Jumps	10	15	<u>15</u>
Athletics	Long Distance 3000m+ <u>3000m+ or greater</u>	60	5	<u>5</u>
Athletics	Middle Distance 800-1500m	30	10	<u>10</u>
Athletics	Sprint 400m or less	10	15	<u>15</u>
Athletics	Throws	5	15	<u>15</u>
Automobile Sports	All	5	0	<u>0</u>
Badminton	Badminton	10	10	<u>10</u>
Bandy	Bandy	5	10	<u>10</u>
Baseball	Baseball	5	10	<u>10</u>
Basketball	Basketball	10	10	<u>10</u>
Basketball	3 on 3	10	10	<u>10</u>
Basque Pelota	Basque Pelota	5	5	<u>5</u>
Biathlon	Biathlon	60	10	<u>10</u>
Billiards Sports	All	0	0	<u>0</u>
Bobsleigh	Bobsleigh	5	10	<u>10</u>
Bobsleigh	Skeleton	0	10	<u>10</u>
Bodybuilding	Bodybuilding	5	30	<u>30</u>
Bodybuilding	Fitness	10	30	<u>30</u>
Boules Sports	All	0	0	<u>0</u>
Bowling	All	0	0	<u>0</u>

⁵ Includes only those non-IOC recognized sports that are members of the Alliance of Independent recognized Members of Sport (AIMS)

⁶ Compliance with the GHRFs MLAs and GH MLAs will be mandatory from 1 January 2017 and 1 January 2018 respectively. In 2017 ADOs should maintain or preferably exceed their existing volume of GH analysis whilst putting in place the necessary measures to comply with the GH MLAs in 2018.

Boxing	Boxing	15	10	<u>10</u>
Bridge	Bridge	0	0	<u>0</u>
Canoe/Kayak	Sprint {200m}	10	10	<u>10</u>
Canoe/Kayak	Canoe Slalom	15	10	<u>10</u>
Canoe/Kayak	Canoe Polo	5	10	<u>10</u>
Canoe/Kayak	Middle Distance {500m}	15	10	<u>10</u>
Canoe/Kayak	Dragon Boat	10	5	<u>5</u>
Canoe/Kayak	Freestyle	5	10	<u>10</u>
Canoe/Kayak	Long Distance {1000m}	30	5	<u>5</u>
Canoe/Kayak	Marathon	30	5	<u>5</u>
Canoe/Kayak	Ocean Racing	15	5	<u>5</u>
Canoe/Kayak	Wildwater	5	10	<u>10</u>
Casting	Casting	0	0	<u>0</u>
Cheer	Cheer	5	5	<u>5</u>
Chess	Chess	0	0	<u>0</u>
Cricket	All	5	10	<u>10</u>
Curling	Curling	0	0	<u>0</u>
Cycling	Artistic	5	5	<u>5</u>
Cycling	BMX	5	10	<u>10</u>
Cycling	Cycle-Ball	5	5	<u>5</u>
Cycling	Cyclo-Cross	30	10	<u>10</u>
Cycling	Mountain Bike	30	10	<u>10</u>
Cycling	Road	60	10	<u>10</u>
Cycling	Track Endurance	60	10	<u>10</u>
Cycling	Track Sprint	10	10	<u>10</u>
Cycling	Trials	5	5	<u>5</u>
Dance Sport	All	5	5	<u>5</u>
Darts	Darts	0	0	<u>0</u>
Dragon Boat	Dragon Boat	10	5	<u>5</u>
Draughts	Draughts	0	0	<u>0</u>
Equestrian	Dressage	0	0	<u>0</u>
Equestrian	Driving	0	0	<u>0</u>
Equestrian	Eventing	5	5	<u>5</u>
Equestrian	Endurance	5	5	<u>5</u>
Equestrian	Jumping	5	5	<u>5</u>
Equestrian	Reining	0	0	<u>0</u>
Equestrian	Vaulting	5	5	<u>5</u>
Fencing	All	5	5	
Fencing	Epee	5	5	<u>5</u>
Fencing	Foil	5	5	<u>5</u>
Fencing	Sabre	5	5	<u>5</u>
Field Hockey	Field Hockey	10	10	<u>10</u>
Field Hockey	Indoor	5	5	<u>5</u>
Fistball	Fistball	5	5	<u>5</u>

Floorball	Floorball	5	5	<u>5</u>
Flying Disc	Ultimate	5	5	<u>5</u>
Football	Beach Football	5	5	<u>5</u>
Football	Football	10	10	<u>10</u>
Football	Futsal	5	5	<u>5</u>
Go	Go	0	0	<u>0</u>
Golf	Golf	5	5	<u>5</u>
Gymnastics	Artistic	10	10	<u>10</u>
Gymnastics	Acrobatic	5	10	<u>10</u>
Gymnastics	Rhythmic	5	5	<u>5</u>
Gymnastics	Aerobic	10	5	<u>5</u>
Gymnastics	Trampoline	5	5	<u>5</u>
Gymnastics	Tumbling	5	5	<u>5</u>
Handball	Beach	5	5	<u>5</u>
Handball	Indoor	10	10	<u>10</u>
Ice Hockey	Ice Hockey	5	10	<u>10</u>
Icestocksport	Icestocksport Target	0	0	0
Icestocksport	Icestocksport Distance	0	5	<u>5</u>
Ju-Jitsu	All	10	10	<u>10</u>
Judo	Judo	10	10	<u>10</u>
Karate	Karate	10	10	<u>10</u>
Kendo	Kendo	5	5	<u>5</u>
Kickboxing	All	15	10	<u>10</u>
Korfball	Korfball	10	5	<u>5</u>
Lacrosse	Lacrosse	10	10	<u>10</u>
Life Saving	Ocean	10	5	<u>5</u>
Life Saving	Pool	10	5	<u>5</u>
Luge	Luge	0	10	<u>10</u>
Minigolf	Minigolf	0	0	<u>0</u>
Modern Pentathlon	Modern Pentathlon	5	5	<u>5</u>
Motorcycle Racing	All	5	0	<u>0</u>
Mountaineering and Climbing	All	10	5	<u>5</u>
Muaythai	Muaythai	15	10	<u>10</u>
Netball	Netball	10	5	<u>5</u>
Orienteering	All	15	5	<u>5</u>
Polo	All	5	5	<u>5</u>
Powerboating	Aquabike	5	5	<u>5</u>
Powerboating	Circuit	0	0	<u>0</u>
Powerboating	Offshore	0	0	<u>0</u>
Powerlifting	All	5	30	<u>30</u>
Racquetball	Racquetball	10	5	<u>5</u>
Roller Sports	Artistic	5	5	<u>5</u>
Roller Sports	Hockey	5	10	<u>10</u>
Roller Sports	Inline Speed Skating Sprint 1000m or less	15	10	<u>10</u>

Roller Sports	Inline Speed Skating Distance greater than 1000m	30	10	<u>10</u>
Rowing	Rowing	30	10	<u>10</u>
Rugby Union	Fifteens	10	10	<u>10</u>
Rugby Union	Sevens	10	10	<u>10</u>
Sailing	All	5	5	<u>5</u>
Sambo	Sambo	10	10	<u>10</u>
Savate	All	10	10	<u>10</u>
Sepaktakraw	All	0	0	<u>0</u>
Shooting	All	0	0	<u>0</u>
Skating	Figure Skating	10	10	<u>10</u>
Skating	Short Track	15	10	<u>10</u>
Skating	Speed Skating 1500m or less	15	10	<u>10</u>
Skating	Speed Skating greater than 1500m	30	10	<u>10</u>
Skating	Synchronized Skating	10	5	<u>5</u>
Skiing	Alpine	15	10	<u>10</u>
Skiing	Cross-Country	60	10	<u>10</u>
Skiing	Nordic Combined	30	10	<u>10</u>
Skiing	Freestyle	10	5	<u>5</u>
Skiing	Ski Jumping	0	5	<u>5</u>
Skiing	Snowboard	10	5	<u>5</u>
Ski Mountaineering	Ski Mountaineering	30	5	<u>5</u>
Sleddog	Sleddog	0	0	<u>0</u>
Soft Tennis	Soft Tennis	5	5	<u>5</u>
Softball	Softball	5	10	<u>10</u>
Sport Climbing	Boulder	10	10	<u>10</u>
Sport Climbing	Lead	10	5	<u>5</u>
Sport Climbing	Speed	10	5	<u>5</u>
Sport Fishing	Sport Fishing	0	0	<u>0</u>
Squash	Squash	10	5	<u>5</u>
Sumo	Sumo	10	10	<u>10</u>
Surfing	All	10	5	<u>5</u>
Table Tennis	Table Tennis	5	5	<u>5</u>
Taekwondo	Poomsae	5	5	<u>5</u>
Taekwondo	Sparring	10	10	<u>10</u>
Tennis	Tennis	10	5	<u>5</u>
Triathlon	All	60	10	<u>10</u>
Tug of War	Tug of War	5	10	<u>10</u>
Underwater Sports	Apnoea	15	5	<u>5</u>
Underwater Sports	Aquathlon (Underwater Wrestling)	15	10	<u>10</u>
Underwater Sports	Finswimming Open Water	30	5	<u>5</u>
Underwater Sports	Finswimming Pool	15	5	<u>5</u>
Underwater Sports	Free Immersion	15	5	<u>5</u>
Underwater Sports	Spearfishing	15	5	<u>5</u>

Underwater Sports	Target Shooting	0	0	<u>0</u>
Underwater Sports	UW Hockey	5	5	<u>5</u>
Underwater Sports	UW Rugby	5	5	<u>5</u>
Volleyball	Beach	5	5	<u>5</u>
Volleyball	Volleyball	5	5	<u>5</u>
<u>Waterskiing</u>	<u>Barefoot</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Waterskiing</u>	<u>Cable Wakeboard</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Waterskiing</u>	<u>Cableski</u>	<u>5</u>	<u>5</u>	<u>5</u>
Waterskiing	Racing <u>Water Ski</u>	5	5	<u>5</u>
<u>Waterskiing</u>	<u>Slalom</u>	<u>5</u>	<u>5</u>	
Waterskiing	<u>Tricks & Jumps</u> <u>Tournament</u>	5	5	<u>5</u>
Waterskiing	Wakeboard <u>Boat</u>	5	5	<u>5</u>
Weightlifting	Weightlifting	5	30	<u>30</u>
Wrestling	All	15	10	<u>10</u>
Wushu	Sanda	10	10	<u>10</u>
Wushu	Taolu	5	5	<u>5</u>

Minimum Levels of Analysis for Sports and Disciplines of Athletes with an Impairment and Minimum Levels of Analysis

SPORTS	DISCIPLINE	ESAs %	GH & GHRFs % ⁷	GHRFs % ⁶
Aquatics	IPC Swimming Sprint 100m or less	5	10	<u>10</u>
Aquatics	IPC Swimming Middle Distance 200-400m	10	5	<u>5</u>
Aquatics	IPC Swimming Long Distance 800m and greater+	30	5	<u>5</u>
Archery	Para-Archery	0	0	<u>0</u>
Athletics	IPC Combined Events	15	10	<u>10</u>
Athletics	IPC Jumps	5	10	<u>10</u>
Athletics	IPC Sprint 400m or less	5	10	<u>10</u>
Athletics	IPC Throws	5	10	<u>10</u>
Athletics	IPC Middle Distance 800-1500m	30	5	<u>5</u>
Athletics	IPC Long Distance 3000m and greater+	30	5	<u>5</u>
Badminton	Para-Badminton	5	5	<u>5</u>
Basketball	Wheelchair Basketball	5	5	<u>5</u>
Biathlon	IPC Biathlon	30	10	<u>10</u>
Bobsleigh	Para-Bobsleigh	5	5	<u>5</u>
Boccia	Para-Boccia	0	0	<u>0</u>
Canoe/Kayak	Para-Canoe Sprint	10	10	<u>10</u>
Curling	Wheelchair Curling	0	0	<u>0</u>
Cycling	Para-Cycling Track Sprint	5	5	<u>5</u>
Cycling	Para-Cycling Road	30	5	<u>5</u>
Cycling	Para-Cycling Track Endurance	30	5	<u>5</u>
DanceSport	IPC Wheelchair DanceSport	0	0	<u>0</u>
Equestrian	Para-Equestrian	0	0	<u>0</u>
Fencing	Wheelchair Fencing	5	5	<u>5</u>
Field Hockey	Para-Field Hockey	5	5	<u>5</u>
Football-5-a-side	Para-Football 5-a-side	5	5	<u>5</u>
Football-7-a-side	Para-Football 7-a-side	5	5	<u>5</u>
Goalball	Goalball	5	5	<u>5</u>
Handball	Para-Handball	5	5	<u>5</u>
Ice Sledge Hockey	IPC Ice Sledge Hockey	5	5	<u>5</u>
Judo	Para-Judo	10	10	<u>10</u>
Luge	Para-Luge	0	5	<u>5</u>
Powerlifting	IPC Powerlifting	5	30	<u>30</u>
Rowing	Para-Rowing	30	10	<u>10</u>
Rugby	Wheelchair Rugby	5	5	<u>5</u>
Sailing	Para-Sailing	0	0	<u>0</u>

⁷ Compliance with the GHRFs MLAs and GH MLAs will be mandatory from 1 January 2017 and 1 January 2018 respectively. In 2017 ADOs should maintain or preferably exceed their existing volume of GH analysis whilst putting in place the necessary measures to comply with the GH MLAs in 2018.

SPORTS	DISCIPLINE	ESAs %	GH & GHRFs % ⁷	GHRFs % ⁶
Sitting Volleyball	Sitting Volleyball	<u>5</u>	<u>5</u>	<u>5</u>
Shooting	IPC Shooting	<u>0</u>	<u>0</u>	<u>0</u>
Skiing	Para-Snowboard	5	5	<u>5</u>
Shooting	IPC Shooting	<u>0</u>	<u>0</u>	
Skiing	IPC Alpine	10	5	<u>5</u>
Skiing	IPC Cross-Country Sprint/Short Distance	30	10	<u>10</u>
Skiing	IPC Cross-Country Middle/Long distance	30	10	<u>10</u>
Shooting	IPC Shooting	<u>0</u>	<u>0</u>	<u>0</u>
Table Tennis	Para-Table Tennis	5	5	<u>5</u>
Taekwondo	Para-Taekwondo-Kyorugi	10	10	<u>10</u>
Tennis	Wheelchair Tennis	5	5	<u>5</u>
Triathlon	Para-Triathlon	30	10	<u>10</u>
Volleyball	Sitting Volleyball	<u>5</u>	<u>5</u>	
Waterskiing	Disabled	<u>0</u>	<u>0</u>	<u>0</u>