



TD2017MRPL

Summary of Major Modifications

The Technical Document on Minimum Required Performance Levels for Detection and Identification of Non-Threshold Substances has undergone a revision by WADA's Laboratory Expert Group (LabEG).

The new version of the document, TD2017MRPL, includes the following main modifications:

1.0 Minimum Required Performance Levels (MRPL)

It has been clarified at the end of this section that since the metabolic and excretion patterns of *Prohibited Substances* may vary substantially with time after administration, it is important that Laboratories include in their analytical procedures relevant target analytes to ensure the detection of the *Prohibited Substance* as extensively as possible.

Table 1

In Table 1, MRPLs were added for:

- 1) **S0. Non-approved substances** (e.g. AOD9604): 2 ng/mL
- 2) **S1.2 Other Anabolic Agents**: 2 ng/mL
- 3) **S2.2. HIF Stabilizers**: 2 ng/mL
- 4) **S2.3 Gonadotropin Releasing Hormone (GnRH)**: 2 ng/mL
- 5) **S2.5 Growth Hormone (GH) Releasing Factors**:
 - GH-Releasing Hormone (GHRH) and its analogues: MRPL changed to 1 ng/mL
 - Addition of a new category for other Growth Factors: 2 ng/mL
- 6) **S4. Hormone and Metabolic Modulators**:
 - Meldonium: 200 ng/mL
 - Insulin: 50 pg/mL

Footnotes (b, e, f, g) have been added to clarify that some substances classified in the categories of *Prohibited Substances* included in Table 1 are considered Threshold Substances and, therefore, their determination and reporting is covered in the Technical Document on Decision Limits (TDDL)

A footnote (i) has been added to clarify that all Laboratories shall have analytical capacity to test for small peptides and that Testing Authorities should be aware that *Testing* for these substances may not be part of the Laboratory routine Analytical Testing menu.

4.0 Reporting of Non-Threshold Substances

It has been specified that higenamine should not be reported at levels below 10 ng/mL.

It has been specified that meldonium should not be reported at levels below 100 ng/mL.

The notes on detection and reporting of hydromorphone have been removed. This will be addressed in a future Technical Letter.

Footnotes 6 and 7 have been added at the end of the section to clarify the target analytes for application of the reporting limits specified for Non-Threshold Substances in classes S6, S7, S8, S9 and P2 and for salmeterol and higenamine, respectively.