

## TD2022MRPL version 1.0

### Summary of Major Modifications

The *Technical Document on Minimum Required Performance Levels (MRPLs) and Applicable Minimum Reporting Levels (MRLs) for Non-Threshold Substances Analyzed by Chromatographic-Mass Spectrometric Analytical Methods*, TD2022MRPL version 1.0, has been modified to include the following main changes:

#### Title

- The title was changed to reflect that this document's scope includes not only the minimum routine detection and identification capabilities for Non-Threshold Substances (defined by the MRPL), but also the minimum reporting requirements applicable to certain classes of or to some specific Non-Threshold Substances (defined by the *MRL*).

#### **Article 2.0 Minimum Reporting Levels (MRL) (for Certain Classes of or for Some Specific Non-Threshold Substances)**

- This article has been added to provide clarification about the differences between MRPL and *MRL*.

#### **Article 3.0 Limit of Detection (LOD) of the Initial Testing Procedure (ITP)**

- Further guidance is provided about the requirements to be met for the LOD of the ITP, depending on whether the Non-Threshold Substance is subject to an *MRL* or not. In particular, exceptions are noted for those substances for which an *MRL* has been established to determine the concentration above which the finding shall be reported as an *Adverse Analytical Finding (AAF)* without the need to conduct GC/C/IRMS analysis; substances classified under class S1.2 that may be used as growth promoters for livestock; and cocaine

#### **Article 4.0 Limit of Identification (LOI) of the Confirmation Procedure (CP)**

- Further guidance is provided about the requirements to be met for the LOI of the CP. In particular, an exception is noted for cocaine.

#### **Article 5.0 Reporting of Findings for Non-Threshold Substances**

- Guidance is provided about the reporting of findings for Non-Threshold Substances, depending on whether the Non-Threshold Substance is subject to an *MRL* or not;
- It is clarified that estimated concentrations of target Analyte(s) of Non-Threshold Substances with an *MRL* shall be adjusted when  $SG > 1.018$ ;

- In addition, minimum requirements are provided for the A” CP estimation of the concentration(s) of target Analyte(s) of Non-Threshold Substances with an *MRL*, including the use of an internal standard, a single-point calibrator at 120% *MRL* and a quality control (QC) sample at *MRL*. It is further clarified that no quantification or estimation of concentrations of such target Analyte(s) is necessary during the “B” CP.

#### **Table 1.0**

- In this table, the MRPL and *MRL* (when applicable) for Non-Threshold Substances are defined, including new reporting limits for some substances (e.g., growth promoters (as per TL-23); some diuretics/contaminants (as per TL-24); vilanterol (a beta-2 agonist); dextran, mannitol and probenecid (masking agents); the cocaine parent compound; and some glucocorticoids).

#### **References**

The list of references has been expanded to include all relevant other *Technical Documents* and Technical Letters.

The TD2022MRPL version 1.0 replaces the former TD2019MRPL version 2.0 and becomes effective on 1 January 2022.