WORLD ANTI-DOPING AGENCY
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TD2021IRMS version 2.0

Summary of Major Modifications

The *Technical Document* on Detection of Synthetic Forms of *Prohibited Substances* by GC/C/IRMS, TD2021IRMS version 2.0, has been corrected as follows:

Article 1.0

It has been clarified that the general technical recommendations and method validation requirements described in this TD shall also be applied to the analysis of 19-NA and 19-NE, notwithstanding that these two substances are subjects of a separate TD (TD NA).

Article 1.1.3

It has been clarified that the same endogenous reference compounds (ERCs) and target compounds (TCs) that led to the "A" *Sample AAF* shall be measured in the "B" *Sample.*

Article 2.1.1

It has been clarified as a comment that *Sample* volume adjustment may allow the analysis of TCs and ERCs present in the *Sample* at a concentration lower than (<) the respective LOQ as long as the signal is within the validated linearity range of the IRMS instrument for that particular Analyte.

Article 2.1.2

The reference to the monitoring of the precision of the 45/44 and 46/44 ratios as a check for the stability of CO_2 pulses has been removed, since this is not applicable to users of Thermo instruments.

Correction of a minor mistake that has been detected in the description of the equation 3 for the mass balance adjustment of measured $\delta^{13}C$ values of acetylated compounds. The term "C" in Eq. 3 had been misquoted as representing the concentration; in fact, "C" stands for "carbon" in $\delta^{13}C$ and there is no concentration value represented in Eq. 3.

Article 2.3.2 - iv

It has been clarified as a comment that the criterion for the ERC-A and ERC-Etio pairs may be applied only if no other criterion based on the measurement of T, 5α-Adiol and/or 5β-Adiol can be used.

Article 2.4.2

It has been clarified that in those cases when pregnanediol (PD) is not measurable in the *Sample*, or when in the Laboratory's opinion a negative or inconclusive result has been caused by a $\delta^{13}C$ (ERC_1) value that is not consistent with an endogenous origin, the

Laboratory shall explain in the comments section of the Test Report in *ADAMS* why PD could not be used as the ERC_1.

Once more, it is stressed that the two (2) ERCs that allowed concluding the *AAF* for the "A" *Sample* shall also be measured during the "B" Sample CP.