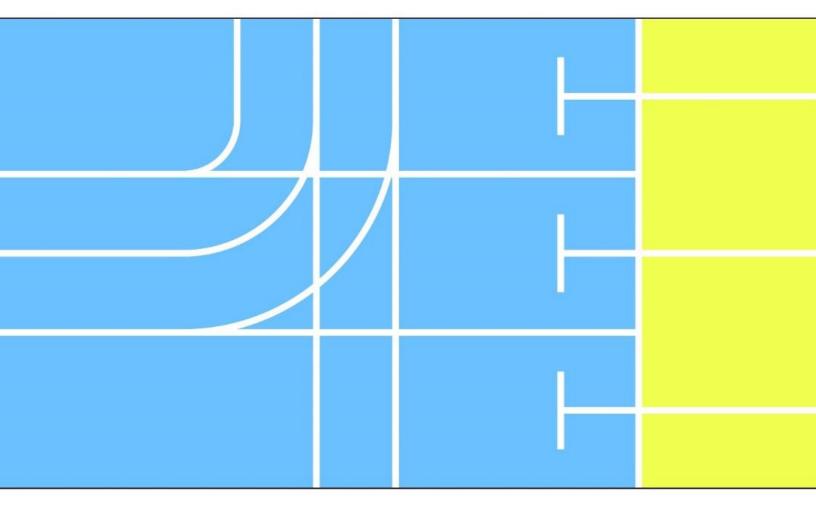


World Anti-Doping Code

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, and other relevant stakeholders.

The *International Standard* for Laboratories first came into effect in November 2002. It was subsequently amended multiple times, specifically in 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 is effective as of 1 January 2027.

Published by:

World Anti-Doping Agency Stock Exchange Tower 800 Place Victoria (Suite 1700) PO Box 120 Montreal, Quebec Canada H3C 0B4

www.wada-ama.org

Tel:	+1 514 904 9232
Fax:	+1 514 904 8650
E-mail:	code@wada-ama.org

Table of Contents

PART			DUCTION, CODE PROVISIONS, INTERNATIONAL PROVISIONS AND DEFINITIONS, AND INTERPRETATIONS	6
1.0			and Scope	
	1.1		A Laboratory Standards	
		1.1.1	International Standard for Laboratories (ISL)	
		1.1.2	Technical Documents (TDs)	
		1.1.3	Technical Letters (TLs)	
		1.1.4	Laboratory Guidelines (LGs)	9
		1.1.5	Technical Notes (TNs)	10
	1.2	Samp	le Analysis	10
	1.3	WADA	A Laboratory Accreditation Framework and ABP Laboratory Approval	10
2.0	Code	Provisi	ions	11
3.0	Defin	itions a	nd Interpretations	12
	3.1	Define	ed terms from the 2027 Code that are used in the ISL	12
	3.2	Define	ed Terms from the International Standard for Laboratories	16
	3.3	Define	ed Terms from the International Standard for Testing	21
	3.4	Define	ed Terms from the International Standard for Results Management	21
	3.5	Techn	nical Documents cited in this International Standard for Laboratories	22
	3.6	Interp	retation	22
PART	APPR	ROVAL	RATORY ACCREDITATION AND <i>ABP</i> LABORATORY REQUIREMENTS AND OPERATING STANDARDS	24
4.0			Requirements for WADA Laboratory Accreditation, ABP Approval and Laboratory Accreditation for Major Events	24
	4.1		A Laboratory Accreditation	
		4.1.1	Applicant laboratory for WADA Accreditation	
		4.1.2	Candidate laboratory for WADA Accreditation	
		4.1.3	Probationary laboratory for WADA Accreditation	
		4.1.4	WADA-Accredited Laboratory	
	4.2	WADA	A ABP Laboratory Approval	45
		4.2.1	Applicant ABP Laboratory	45
		4.2.2	Candidate ABP Laboratory	47
		4.2.3	ABP Laboratory	50
	4.3 Laboratory Accreditation Requirements for Major <i>Events</i>			52
		4.3.1	Major Event Analytical Testing in the Laboratory Facilities	52
		4.3.2	Major Event Analytical Testing in "Satellite" Laboratory Facilities	57
5.0	Appli	cation o	of ISO/IEC 17025 to the Analysis of Samples	59
	5.1	Introd	uction and Scope	59

	5.2	Structu	Iral and Resource Requirements	59
		5.2.1	General	59
		5.2.2	Laboratory Personnel	59
		5.2.3	Laboratory Facilities and Environmental Conditions	62
		5.2.4	Laboratory Equipment	65
		5.2.5	Metrological Traceability – Use and Control of Chemicals, Reagents	
			and Reference Materials (RMs)	
		5.2.6	Externally Provided Analytical Services	
	5.3	Process Requirements		
		5.3.1	Reception, Registration and Handling of Samples	
		5.3.2	Acceptance of Samples for Analysis	
		5.3.3	Initial Storage and Sample Aliquoting for Analysis	
		5.3.4	Analysis of Samples	
		5.3.5	Assuring the Validity of Analytical Results	
		5.3.6	Results Management	
		5.3.7	Storage of Samples	
		5.3.8	Secondary Use or Disposal of Samples and Aliquots	
		5.3.9	Control of Nonconformities in Analytical Testing	
			Complaints	
	5.4		ement Requirements	
		5.4.1	Organization	. 110
		5.4.2	Management Reviews	. 110
		5.4.3	Document Control	
		5.4.4	Control and Storage of Technical Records	. 111
		5.4.5	Cooperation with Customers and with WADA	. 111
6.0			atory and ABP Laboratory Monitoring and Performance	
			ctivities	
	6.1		Laboratory and ABP Laboratory Monitoring	
		6.1.1	WADA External Quality Assessment Scheme (EQAS)	
		6.1.2	Laboratory and ABP Laboratory Assessments	
		6.1.3	Removal of Samples by WADA	
		6.1.4	WADA Laboratory Monitoring and Assessment during a Major Event	
	6.2		tion of Laboratory Nonconformities	
7.0			nd ABP Laboratory Disciplinary Procedures	
	7.1		awal of WADA Accreditation	
	7.2		quences of Suspended or Revoked Accreditation or ATR	
	7.3		ion of Suspension or Analytical <i>Testing</i> Restriction	
	7.4		ary Cessation of Laboratory Operations	
	7.5		atory Reinstatement	
	7.6	Suspe	nsion or Revocation of ABP Laboratory	. 137

	7.7	Reporting of False Analytical Findings During a Major Event 1	137		
8.0	Code o	of Ethics for Laboratories and ABP Laboratories 1	139		
	8.1	Confidentiality 1	139		
	8.2	Research in Support of Doping Control 1	139		
		8.2.1 Research on Human Subjects 1	139		
		8.2.2 Controlled Substances 1	139		
	8.3	Analysis 1	139		
		8.3.1 Analytical <i>Testing</i> for <i>ADOs</i> 1	139		
		8.3.2 Analytical Testing for non-Signatories 1	140		
		8.3.3 Clinical or Forensic Analysis 1	140		
		8.3.4 Other Analytical Activities 1	140		
	8.4	Sharing of Knowledge 1	141		
	8.5	Duty to Preserve the Integrity of the World Anti-Doping Program and to Avoid any Detrimental Conduct	141		
	8.6	Breach and Enforceability 1	142		
PART	THREE	: ISL ANNEX			
ISL AN	INEX A	- PROCEDURAL RULES FOR THE DISCIPLINARY COMMITTEE			
	OF TH	IE ISL 1	143		
	Pream	ble 1	143		
	PART	I – Composition of the Committee 1	143		
	PART	II – General Provisions 1	144		
	PART III – Scope of the Committee's Review				
	PART IV – Recommendation				
	Part V	t V – Expedited Proceedings or Single Hearing before CAS14			



PART ONE: INTRODUCTION, CODE PROVISIONS, DEFINITIONS, TECHNICAL DOCUMENTS, AND INTERPRETATIONS

1.0 Introduction and Scope

1.1 WADA Laboratory Standards

1.1.1 International Standard for Laboratories (ISL)

In the introduction to the World Anti-Doping Code (*Code*), the purpose and implementation of the *International Standards* are summarized as follows:

"International Standards for different technical and operational areas within the anti-doping program have been and will be developed in consultation with the *Signatories* and governments and approved by *WADA*. The purpose of the *International Standards* is harmonization among *Anti-Doping Organizations* responsible for specific technical and operational parts of anti-doping programs. Adherence to the *International Standards* may be revised from time to time by the *WADA* Executive Committee after reasonable consultation with the *Signatories*, governments and other relevant stakeholders. *International Standards* and all revisions will be published on the *WADA* website and shall become effective on the date specified in the *International Standard* or revision."

The main purpose of the ISL is to ensure that <u>Laboratories</u> and <u>ABP Laboratories</u> report valid test results based on reliable evidentiary data, and to facilitate harmonization in <u>Analytical Testing</u> of <u>Samples</u> by <u>Laboratories</u> and in the analysis of <u>ABP</u> blood <u>Samples</u> by <u>Laboratories</u> and <u>ABP Laboratories</u>.

The ISL sets out the requirements to be followed by <u>Laboratories</u> and <u>ABP</u> <u>Laboratories</u> 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 <u>Laboratory</u> accreditation and WADA <u>ABP</u> <u>Laboratory</u> approval, as well as operating standards for the performance of <u>Laboratories</u> and <u>ABP</u> <u>Laboratories</u>. The ISL also sets out requirements and guidance for *ADO*s in relation to *Sample* custody and storage, <u>Analytical Testing</u> and some aspects of <u>Results</u> <u>Management</u>.

Compliance with the ISL (and its associated *TD*s and *TL*s 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 this *International Standard* were performed properly. A failure by a <u>Laboratory</u> or <u>ABP</u> <u>Laboratory</u> to follow a requirement in effect at the time of <u>Analytical Testing</u>, which has subsequently been eliminated from this ISL or applicable *TD*s or *TL*s at the time of a hearing, shall not serve as a defense to an anti-doping rule violation.

1.1.2 Technical Documents (TDs)

*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. *TDs* are modified and/or withdrawn by *WADA* as appropriate.

- a) Approval and Publication of TDs
 - i. In the case that the implementation of a new or revised *TD* is not time sensitive, a stakeholder consultation (including <u>Laboratories</u> and <u>ABP</u> <u>Laboratories</u>, if applicable) will be conducted for new or revised *TD* drafts. The stakeholder consultation may not be needed if a revised *TD* includes just minor, low-impact modifications (e.g., correction of typographical errors, formatting changes).
 - ii. Final versions of *TD*s are approved by the *WADA* Executive Committee and published on *WADA*'s website.
- b) Implementation of TDs
 - i. Once approved and published, a *TD* becomes an integral part of the ISL and supersedes any previous publication on a similar topic¹, including *TL*s and/or the ISL.
 - ii. The implementation of the requirements detailed in an approved and published *TD* may occur prior to the effective date for implementation specified in the *TD* and shall occur no later than the effective date (deadline for implementation).
 - iii. A failure by a <u>Laboratory</u> or <u>ABP Laboratory</u> to implement a *TD* by the effective date may result in the imposition of an <u>ATR</u> against the Laboratory for that particular <u>Analytical Testing Procedure</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 approval for the ABP, respectively, as determined by WADA.

[Comment to Article 1.1.2b): The effective date for implementation of a TD shall be interpreted as the deadline, following approval and publication of the TD, by which the TD shall be implemented by <u>Laboratories</u> and/or <u>ABP Laboratories</u>. However, <u>Laboratories</u> and <u>ABP Laboratories</u> may implement a TD as soon as it is approved by the WADA Executive Committee and published on WADA's website, provided that the requirements of the TD have been implemented and documented in the <u>Laboratory</u>'s or <u>ABP Laboratory</u>'s Management System. If a <u>Laboratory</u> or <u>ABP Laboratory</u> is not able to implement a new TD by its effective date, it shall inform its clients and WADA as soon as possible. The <u>Laboratory</u> or <u>ABP Laboratory</u> 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 TD, any measures taken to ensure that Samples received in the <u>Laboratory</u> or <u>ABP Laboratory</u> will be subject to <u>Analytical Testing</u> in compliance with the new TD (for example, by

¹ WADA will provide guidance to <u>Laboratories</u>, <u>ABP Laboratories</u> and other WADA stakeholders on the standard(s) that may be affected by a new or revised *TD* or *TL* in the Summary of Modifications that accompanies the publication of the approved version of the *TD* or *TL*.

subcontracting the analysis to another <u>Laboratory</u> or <u>ABP Laboratory</u>, as applicable), as well as plans for the implementation of the new TD.]

- iv. The implementation of a *TD* requirement into the <u>Laboratory</u>'s and, if relevant to the analysis of blood *ABP Samples*, the <u>ABP Laboratory</u>'s Management System is mandatory for obtaining and maintaining *WADA* accreditation or approval, respectively, and for the application of the relevant <u>Analytical Testing Procedure</u>(s) to the analysis of *Samples*.
- c) Application of TDs
 - i. When a newly approved version of a *TD* lowers either a *DL* for a <u>Threshold</u> <u>Substance</u> or an *MRL* for a <u>Non-Threshold Substance</u>, as applicable, the revised limits specified in the new *TD* shall not be applied to the reporting of analytical results for *Samples* collected before the effective date of the *TD*, even if the <u>Laboratory</u> or <u>ABP Laboratory</u> already implemented and documented the requirements of the new *TD* in their Management System before the effective date.

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

- ii. The most recently approved *TD* shall be applied to the <u>Analytical Testing</u> of *Samples* prior to the effective date if it would lead to a result that benefits the *Athlete* (e.g., increase of the *DL* for a <u>Threshold Substance</u> or of the *MRL* for a <u>Non-Threshold Substance</u>, establishment of more stringent identification criteria for chromatographic-mass spectrometric or electrophoretic <u>CP</u>). Therefore, in the case where an analytical finding does not meet the reporting criteria defined in the new *TD*, it shall be reported as a <u>Negative Finding</u>.
- iii. Subject to the above, the analysis of *Samples* or the review of Analytical Data may occur immediately once a *TD* has been approved and the <u>Laboratory</u> or <u>ABP</u> <u>Laboratory</u> has implemented and documented the requirements of the new *TD* in their Management System.

1.1.3 Technical Letters (TLs)

TLs 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. *TLs* are amended and/or withdrawn by *WADA* as appropriate.

- a) Approval and Publication of TLs
 - i. In the case that the implementation of a new or revised *TL* is not time sensitive, a stakeholder consultation (including <u>Laboratories</u>) will be

conducted for new or revised *TL* drafts. The stakeholder consultation may not be needed if a revised *TL* includes just minor, low-impact modifications (e.g., correction of typographical errors, formatting changes).

ii. Final versions of *TL*s are published on *WADA*'s website after approval by the *WADA* Executive Committee and become effective immediately, unless otherwise specified by *WADA*.

[Comment to Article 1.1.3a): TLs may require actions (e.g. validation of new <u>Analytes</u> or modifications to <u>Analytical Testing Procedures</u>, the procurement of <u>RM</u>s or <u>RC</u>s), 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 TL.]

- b) Application of *TL*s
 - i. Once approved, a *TL* becomes an integral part of the ISL and supersedes any previous publication on a similar topic¹, including *TD*s and/or the ISL.
 - ii. A failure by a <u>Laboratory</u> to implement a *TL* by the effective date may result in the imposition of an <u>ATR</u> against the <u>Laboratory</u> for that particular <u>Analytical Testing Procedure</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, as determined by *WADA*.
 - iii. The implementation of the requirements of relevant *TL*s into the Laboratory's Management System is mandatory for obtaining and maintaining *WADA* accreditation or approval, respectively, and for the application of the relevant <u>Analytical Testing Procedure</u>(s) to the analysis of *Samples*.

1.1.4 Laboratory Guidelines (LGs)

<u>LGs</u> are <u>issued</u> 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. LGs may be consulted with WADA stakeholders (including Laboratories).
 - 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 <u>LGs</u>

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 relevant <u>LGs</u>.

🖻 wada

1.1.5 <u>Technical Notes (TN</u>s)

<u>TN</u>s are <u>issued</u> 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. <u>TN</u>s are not subject to a consultation with WADA stakeholders.
 - ii. <u>TN</u>s are approved by the <u>Lab EAG</u>.
 - iii. <u>TN</u>s are provided on a confidential basis to <u>Laboratories</u> only and are not published on *WADA*'s website.
- b) Application of TNs

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

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 of the exogenous origin of *Prohibited Substance(s)* and/or their *Metabolite(s)*, or *Marker(s)* of Use of *Prohibited Substances* or *Prohibited Methods* in human biological fluids or tissues.

<u>Laboratories</u> and *ABP* <u>Laboratories</u> may accept samples for other forms of analysis, subject to the *provisions* of the ISL Code of Ethics (see Section 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). Any such testing shall not be covered by the <u>Laboratory</u>'s *WADA* accreditation or *ABP* approval and, therefore, shall not be subject to the requirements of the ISL, *TD*s or *TL*s. For the avoidance of doubt, Test Reports or other documentation or correspondence from <u>Laboratories</u> or *ABP* <u>Laboratories</u> 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 <u>ABP Laboratory</u> Approval

The WADA Laboratory 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 Annexes).

a) Part Two of the ISL describes the requirements necessary to obtain and maintain WADA accreditation and the procedures involved to fulfill these requirements, as well as the requirements necessary to obtain and maintain WADA approval for the ABP, as well as the specific requirements to conduct <u>Analytical Testing</u> during <u>Major Events</u> (Section 4.0). It also includes the application of ISO/IEC 17025² to the field of *Doping Control* (Section 5.0), a brief description of the WADA Laboratory and <u>ABP Laboratory</u>

² Effective version of ISO/IEC 17025.



monitoring and performance evaluation activities (Section 6.0) as well as the <u>Laboratory</u> and <u>ABP Laboratory</u> disciplinary procedures (Section 7.0) and the ISL Code of Ethics (Section 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 *Doping Control* by <u>Laboratories</u> and <u>ABP Laboratories</u>, as well as to facilitate the assessment of <u>Laboratory</u> and <u>ABP Laboratory</u> compliance by Accreditation Bodies 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.

In order 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 *WADA*-specific requirements for accreditation or approval, Accreditation Bodies are required to use the ISL, *TD*s, *TL*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>EQAS</u> and in routine <u>Analytical Testing</u>. The <u>EQAS</u> performance of <u>Laboratories</u> and <u>ABP Laboratories</u> is continually monitored by *WADA* and reviewed as part of their Accreditation Body assessment process, as applicable. Therefore, the <u>Laboratory</u> or <u>ABP Laboratory</u> 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 2021 *Code* are directly relevant to the *International Standard* for Laboratories, they can be obtained by referring to the *Code* itself:

- Code Article 2 Anti-doping Rule Violations
- Code Article 3 Proof of Doping
- Code Article 4 The Prohibited List
- Code Article 6 Analysis of Samples
- Code Article 10 Sanctions of Individuals
- Code Article 13 Results Management: Appeals
- Code Article 14 Confidentiality and Reporting

3.0 Definitions and Interpretations

3.1 Defined terms from the 2027 *Code* that are used in the *International Standard* for Laboratories

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 NADOs.

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 *NADO*). An *ADO* 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 *TUEs*. However, if an Article 2.1, 2.3 or 2.5 anti-doping rule violation is committed by any *Athlete* over whom an *ADO* 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* 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 to Athlete: 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 NADO has chosen to exercise authority, 4) Recreational Athlete, and 5) individuals over whom no International Federation or NADO 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 NADOs.]

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 WADAapproved laboratory, which requires further investigation as provided by the applicable International Standards (including related Technical Documents or Technical Letters),

WADA stakeholder notice, or as directed by *WADA*, prior to the final determination about the finding (i.e., the establishing, or not, of 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) <u>Provisional Suspension</u> means the Athlete or other Person is barred under Article 8; (d) <u>Financial Consequences</u> means a financial sanction imposed for an anti-doping rule violation or to recover costs associated with an anti-doping rule violation; and (e) <u>Public Disclosure</u> 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 TD DL and other applicable Technical Documents (e.g., TD GH, TD CG/LH).]

Delegated Third Parties (DTP): Any Person to which an ADO delegates any aspect of Doping **Control** or anti-doping Education programs including, but not limited to, third parties or other ADOs that conduct Sample collection or other Doping Control services or anti-doping Educational programs for the ADO, or individuals serving as independent contractors who perform Doping Control services for the ADO (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, *TUEs*, *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.]

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 *TD*s 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 Minimum Reporting Levels and the Non-Threshold Substances to which they shall be applied, refer to the TD MRPL.]

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*, 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 *NOC* 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 *NOC* 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., *ATF*, *ABP*, *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 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, but which would not otherwise be included in the definition of *Prohibited Methods. 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 *ADO* or *TUE* committee or hearing panel, procuring false testimony from witnesses, committing any other fraudulent act upon the *ADO* 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*.

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 on the analysis, interpretation and reporting of specific *Prohibited Substance(s)* and/or *Prohibited Method(s)* or on the application of specific Laboratory or ABP 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 (TUE): 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 *TUEs* are met.

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.

3.2 Defined Terms from the International Standard for Laboratories

<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 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 will be referred to as "Laboratory(-ies)". If, instead, provisions apply exclusively to either <u>Laboratories</u> or <u>ABP Laboratories</u>, the specific definition will be used as applicable.

Instead, when the term "laboratory" is used, it implies laboratories that are neither WADA-accredited nor ABP approved, which may be involved in analytical areas other than anti-doping.]

<u>Aliquot</u>: A portion of the *Sample* of biological fluid (e.g., urine, blood) obtained from the *Athlete* 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> performed under controlled analytical and laboratory conditions. For anti-doping purposes, an <u>Analyte</u> may be a *Prohibited Substance*, a *Metabolite* or degradation product of a *Prohibited Substance*, or a *Marker* of the Use of a *Prohibited Substance* or *Prohibited Substance* or *Prohibited Substance*.

Analytical Method: Analytical Testing Procedures and Test Methods.

<u>Analytical Testing</u>: The parts of the *Doping Control* process performed at the <u>Laboratory</u> or <u>ABP Laboratory</u>, which include Sample handling, analysis and reporting of results.

Analytical Testing Procedure: A <u>Fit-for-Purpose</u> procedure, as demonstrated through method validation, and used to detect, identify and/or quantify <u>Analytes</u> in a *Sample* for *Doping Control* purposes in accordance with the ISL and relevant *TDs*, *TLs* or <u>LGs</u>. An <u>Analytical</u> <u>Testing</u> Procedure is also referred to or known as an <u>Analytical Method</u> or <u>Test</u> <u>Method</u>.

<u>Analytical Testing Restriction</u> (ATR): Restriction on a <u>Laboratory</u>'s application of specified <u>Analytical Testing Procedure(</u>s) or the analysis of a particular class(es) of *Prohibited Substances* or *Prohibited Methods* to *Samples*, as determined by *WADA*.

<u>Applicant ABP Laboratory</u>: Laboratory applying to become a <u>Candidate ABP laboratory</u> for WADA approval for the ABP.

<u>Applicant Laboratory</u>: Laboratory applying to become a <u>Candidate laboratory</u> for WADA accreditation.

<u>Athlete Passport Management Unit</u> (<u>APMU</u>): A unit composed of a Person or Persons that is responsible for the timely management of Athlete Biological Passports in ADAMS on behalf of the <u>Passport Custodian</u>.

<u>Candidate Laboratory</u>: Laboratory in the candidate phase of WADA accreditation, as approved by the WADA Executive Committee.

<u>Candidate ABP Laboratory</u>: Laboratory in the candidate phase of WADA approval for the ABP, as approved by the WADA Executive Committee.

<u>Certificate of Analysis (CoA)</u>: The material produced by a <u>Laboratory</u> or <u>ABP</u> Laboratory upon request by an <u>APMU</u>, <u>Expert Panel</u>, or WADA as set forth in the *TD* on <u>Laboratory</u> <u>Documentation Packages</u> (*TD* <u>LDOC</u>), to support an analytical result for a *Sample* that is judged to confirm the baseline level of a urine or blood *Marker* of the *ABP*.

<u>Certified Reference Material</u> (<u>CRM</u>): <u>RM</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>MU</u>, and a statement of metrological traceability.

Confirmation Procedure (**CP**): An <u>Analytical Testing Procedure</u> that has the purpose of confirming the presence and/or, when applicable, determining the quantitative value (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*) and/or establishing the origin (exogenous or endogenous) of one or more specific <u>Analytes</u>.

External Quality Assessment Scheme (EQAS): Program for quality assessment of Laboratory performance, which includes the periodical distribution of urine or blood Samples to Laboratories and Probationary laboratories by WADA, to be analyzed for the presence or absence of <u>Analytes</u>. The EQAS includes also the provision of blood Samples to <u>ABP Laboratories</u> for the analysis of the blood Markers of the ABP. EQAS Samples may be open (i.e., educational; in such cases the content may be indicated), blind or double-blind (in such cases the content is unknown to the Laboratories).

Fit(ness)-for-Purpose: Suitable for the intended purpose and in conformity with the ISO/IEC 17025 or ISO 15189, as applicable, the ISL and relevant *TD*s and *TL*s.

Flexible Scope of ISO/IEC 17025 Accreditation: Status of laboratory accreditation, which allows a <u>Laboratory</u> or <u>ABP Laboratory</u> to make and implement restricted modifications in the Scope of ISO/IEC 17025 Accreditation, as applicable, prior to the assessment by the Accreditation Body. See Article 4.4.2.2 for a detailed description of <u>Flexible Scope of ISO/IEC 17025 Accreditation</u>.

[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 ABP blood Markers when included in the scope of ISO 15189 accreditation of <u>ABP Laboratories</u>.]

Further Analysis: Further Analysis, as this term is used in the ISL, occurs when a Laboratory conducts additional analysis on an "A" Sample or a "B" Sample after an

analytical result for that "A" Sample or that "B" Sample has been reported by the Laboratory.

[Comment to <u>Further Analysis</u>: 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. That is not considered <u>Further Analysis</u>.

If a <u>Laboratory</u> is to conduct additional analysis on an "A" Sample or "B" Sample after an analytical result for that Sample has been reported (for example: additional Sample analysis to detect EPO, or GC/C/IRMS analysis, or analysis in connection with the ABP or additional analysis on a stored Sample) it may do so after receiving approval from the <u>TA</u> or <u>RMA</u> (if different) or WADA. However, after an Athlete has been charged with a Code Article 2.1 anti-doping rule violation and the case has not been finally resolved, then <u>Further</u> <u>Analysis</u> on that Sample may only be performed with the consent of the Athlete or approval from a hearing body (see Code Article 6.5).

<u>Further Analysis</u> may be performed by the same <u>Laboratory</u> that did 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. Any other ADO that wishes to conduct <u>Further Analysis</u> on a stored Sample may do so with the permission of the <u>TA</u> or <u>RMA</u> (if different) or WADA and shall be responsible for any follow-up Results Management. Any Sample storage or <u>Further Analysis</u> initiated by WADA, or another ADO shall be at WADA's or that ADO's expense.]

Independent Witness: A *Person*, invited by the <u>TA</u>, the <u>Laboratory</u> or *WADA* to witness the opening and initial aliquoting of an *Athlete's* "B" *Sample*. An <u>Independent Witness</u> shall not be an employee or have a personal financial relationship with the *Athlete* or his/her representative(s), the <u>Laboratory</u>, the <u>SCA</u>, the <u>TA</u> / *DTP* / <u>RMA</u> or *WADA*, as applicable. However, the <u>Independent Witness</u> may be indemnified for his/her service.

<u>Initial Testing Procedure</u> (ITP): An <u>Analytical Testing Procedure</u> whose purpose is to identify those <u>Samples</u> which may contain an <u>Analyte</u> or an elevated quantity of an <u>Analyte</u>.

Laboratory: 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 will be referred to as "Laboratory(-ies)". If, instead, provisions apply exclusively to either <u>Laboratories</u> or <u>ABP Laboratories</u>, the specific definition will be used as applicable.

Instead, when the term "laboratory" is used, it implies laboratories that are neither WADA-accredited nor ABP approved, which may be involved in analytical areas other than anti-doping.]

Laboratory Documentation Package (LDOC): The material produced by a <u>Laboratory</u> upon request by the <u>TA</u>, <u>RMA</u> or *WADA*, as set forth in the *TD* on <u>Laboratory</u> <u>Documentation Packages</u> (*TD* <u>LDOC</u>), to support an analytical result such as an *AAF* or an *ATF*.

[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>TA</u>, <u>RMA</u>, <u>Passport Custodian</u>, <u>APMU</u> or WADA to support the compilation of an <u>ABP Documentation Package</u>.]

<u>Laboratory Expert Advisory Group (Lab EAG</u>): Group of laboratory experts responsible for providing advice and recommendations to *WADA* with respect to the overall management of anti-doping laboratory accreditation and *ABP* approval processes, the



production of Laboratory normative documents, and the conduct of <u>Laboratory</u> and <u>ABP</u> <u>Laboratory</u> monitoring activities and disciplinary procedures.

Laboratory Guidelines (LGs): 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.

[Comment to Laboratory Guidelines: LGs may be later incorporated, partially or in full, in TDs or in the ISL.]

Laboratory Internal Chain of Custody (LCOC): Documentation maintained within the Laboratory or <u>ABP Laboratory</u> to record the chronological traceability of custody (by *Person(s)* or upon storage) and actions performed on the *Sample* and any <u>Aliquot</u> of the *Sample* taken for <u>Analytical Testing</u>.

[Comment to <u>Laboratory Internal Chain of Custody</u>: <u>LCOC</u> is generally documented by a written or electronic record of the date, location, action taken, and the Person performing an action with a Sample or <u>Aliquot</u>.]

<u>Limit of Detection</u> (LOD): Analytical parameter of assay 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.]

Limit of Identification (LOI): Analytical parameter of technical performance for chromatographic-mass spectrometric <u>CP</u>s. For a given <u>Analyte</u> (for which an <u>RM</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>MRPL</u>.

[Comment to Limit of Identification: Since the LOI is an estimation of the identification rate at 95% probability obtained by the Laboratory during Test Method validation, the Laboratory may report a finding below the validated LOI as AAF or ATF, as applicable, when the Analyte is identified in the Sample according to the criteria established in the TD on Chromatographic-Mass Spectrometric Identification Criteria (TD IDCR).]

Limit of Quantification (LOQ): Analytical parameter of assay technical performance. Lowest concentration of an <u>Analyte</u> in a *Sample* that can be quantitatively determined with acceptable precision and accuracy (i.e., acceptable <u>MU</u>) under the stated <u>Test Method</u> conditions.

<u>Major Event</u>: 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).

<u>Measurement Uncertainty</u> (<u>MU</u>): Non-negative parameter associated with a measurement result that characterizes the dispersion of values obtained with the measurement procedure (see *TD* on *DLs* (*TD DL*)).

<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 an <u>Analyte</u> in the routine daily



operation of the <u>Laboratory</u>. Individual <u>Laboratories</u> may and are expected to achieve better performance (see *TD* on <u>MRPL</u> (*TD* <u>MRPL</u>)).

<u>Negative Finding</u>: A test result from a <u>Laboratory</u> which, in accordance with the effective ISL and/or relevant *TD*s and/or *TL*s, concludes that no <u>Analyte</u> included in the requested <u>Analytical *Testing*</u> menu was found in a *Sample* based on the applied <u>ITP</u>s or <u>CP</u>s.

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 *AAF*. Some <u>Non-Threshold Substances</u> have an associated *MRL*.

<u>Presumptive Adverse Analytical Finding</u> (PAAF): The status of a Sample test result from the <u>ITP</u> which represents a suspicious finding, but for which a <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 <u>Lab EAG</u>.

Provisional Suspension: Temporary <u>Suspension</u> of a <u>Laboratory</u>'s WADA accreditation or a laboratory's *ABP* approval pending a final decision by WADA regarding its accreditation status.

<u>Reference Collection</u> (<u>RC</u>): A *Sample(s)* 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, from *in vitro* studies or from past *Doping Controls* 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 <u>Analytical Testing Procedure</u>.

<u>Revocation</u>: The permanent withdrawal of a <u>Laboratory</u>'s WADA accreditation or a laboratory's 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 Testing Procedure</u> to detect or identify, as applicable, the <u>Analyte</u> of interest in the <u>Sample</u>.

Suspension: The temporary withdrawal of a <u>Laboratory</u>'s WADA accreditation or a laboratory's ABP approval.

Technical Note (TN): Technical guidance provided by *WADA* to <u>Laboratories</u> or <u>ABP</u> <u>Laboratories</u> on the performance of specific methods or procedures.



Test Method: Analytical Testing Procedure, Analytical Method.

<u>Threshold</u>: The maximum permissible level (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*) for a <u>Threshold Substance</u> in a *Sample*. The <u>Threshold</u> is used to establish the *DL* for reporting an *AAF* or *ATF* for a <u>Threshold Substance</u>.

Threshold Substance: A *Prohibited Substance* for which the identification and quantitative determination (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 *DL*, or, when applicable, the establishment of an exogenous origin, constitutes an *AAF*. <u>Threshold Substances</u> are identified as such in the *TD* on *DLs* (*TD DL*) and other applicable *TD*s.

3.3 Defined Terms from the International Standard for Testing

<u>Sample Collection Authority</u> (SCA): The organization that is responsible for the collection of Samples in compliance with the requirements of the International Standard for Testing, whether (1) the TA itself; or (2) a DTP to whom the authority to conduct Testing has been granted or sub-contracted. The TA 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>: 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 Sample(s).

<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 *ADO* that plans *Testing* on *Athletes* over whom it has <u>TA</u>, in accordance with the requirements of Article 4.7 of the *International Standard* for *Testing*.

<u>**Testing Authority (TA)**</u>: The ADO that authorizes *Testing* on Athletes it has authority over. It may authorize a DTP to conduct *Testing* pursuant to the authority of and in accordance with the rules of the ADO. Such authorization shall be documented. The ADO authorizing *Testing* remains the <u>TA</u> and ultimately responsible under the *Code* to ensure the DTP conducting the *Testing* does so in compliance with the requirements of the *International Standard* for *Testing*.

3.4 Defined Terms from the International Standard for Results Management

<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*.

Passport Custodian: The ADO responsible for Result Management of the Athlete's <u>Passport</u> and for sharing any relevant information associated to that Athlete's <u>Passport</u> with other ADOs.



<u>**Results Management Authority (RMA):**</u> The ADO responsible for conducting Results Management in a given case.

3.5 *Technical Documents* cited in this *International Standard* for Laboratories

- a) TD BAR Analytical Requirements for the Hematological Module of the Athlete Biological Passport.
- b) *TD* CG/LH Analysis, Reporting & Management of Urinary Human Chorionic Gonadotrophin (hCG) and Luteinizing Hormone (LH) Findings in Male *Athletes*.
- c) *TD* DBS Dried Blood Spots (DBS) for *Doping Control*. Requirements and Procedures for Collection, Transport, <u>Analytical Testing</u> and Storage.
- d) *TD DL Decision Limits* for the Confirmatory Quantification of Exogenous <u>Threshold</u> <u>Substances</u> by Chromatography-based <u>Analytical Methods</u>.
- e) TD EAAS Measurement and Reporting of Endogenous Anabolic Androgenic Steroid (EAAS) *Markers* of the Urinary Steroid Profile.
- f) TD EPO Harmonization of Analysis and Reporting of Erythropoietin (EPO)-Receptor Agonists (ERAs) and Transforming Growth Factor-beta (TGF-β) Signalling Inhibitors by Polyacrylamide Gel Electrophoretic (PAGE) <u>Analytical Methods</u>.
- g) TD EQAS External Quality Assessment Scheme.
- h) *TD* GH Human Growth Hormone (hGH) Isoform Differential Immunoassays for *Doping Control* Analyses.
- i) *TD* IDCR Minimum Criteria for Chromatographic-Mass Spectrometric Confirmation of the Identity of <u>Analytes</u> for *Doping Control* Purposes.
- j) TD IRMS Detection of Synthetic Forms of Prohibited Substances by GC/C/IRMS.
- k) TD LCOC Laboratory Internal Chain of Custody.
- I) TD LDOC Laboratory Documentation Package.
- m) TD <u>MRPL</u> <u>Minimum Required Performance Levels</u> and Applicable *Minimum Reporting Levels* for <u>Non-Threshold Substances</u> Analyzed by Chromatographic-Mass Spectrometric <u>Analytical Methods</u>.
- n) TD PERF Laboratory Performance Evaluation System.
- o) TD SSA Sport Specific Analysis.
- p) TD VAL Method Validation.

3.6 Interpretation

a) 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.

- b) Terms used in this ISL that are defined terms from the *Code* are italicized. Terms that are defined in this or another *International Standard* are underlined.
- c) 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.
- d) The comments annotating various provisions of the ISL shall be used to guide its interpretation.
- e) Unless otherwise specified, references to Articles are references to Articles of the ISL.
- f) The *TD*s and *TL*s associated with the ISL have the same mandatory status as the rest of the *International Standard* and constitute an integral part of it.
- g) The Annexes to the ISL have the same mandatory status as the rest of the *International Standard*.
- h) Where the term "days" is used in the ISL, it shall mean calendar days unless otherwise specified.
- i) The following terms used in the ISL shall be interpreted as indicated:
 - "Shall" to indicate a mandatory requirement;
 - "Should" for a recommendation;
 - "May" for a permission;
 - "Can" for a possibility/capability.



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).

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 advise on the initial accreditation fee to be paid once the laboratory is approved by the *WADA* Executive Committee as a <u>Candidate Laboratory</u> (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).

An <u>Applicant Laboratory</u> may only submit an application if its host country satisfies the following conditions:

a) The existence of a robust National Anti-Doping Program conducted by a NADO and/or a RADO, which is compliant with the Code and the International Standards of the World Anti-Doping Program.

[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 its Sample collection activities included the collection of at least 3,000 Samples (e.g., urine, blood, blood ABP and Dried Blood Spot (DBS) Samples), of which at least 2,500 shall be urine Samples, which were conducted in compliance with the International Standard for Testing (IST) and the TD SSA, as determined by WADA, and analyzed in a <u>Laboratory</u>(-ies).

The host country's National Anti-Doping Program will be evaluated regarding their <u>TDP</u>, Sample collection and Results Management activities.]

 b) The ratification of the UNESCO Convention against Doping in Sport; and

c) The payment of the annual financial contributions to WADA.

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

4.1.1.3 **Provision of 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 Signatories, e.g., NADOs or RADOs responsible for National Anti-Doping Program(s), International Federation(s) responsible for International Anti-Doping Program(s), DTPs in charge of Doping Control activities on behalf of ADOs. The letter(s) of support shall indicate a commitment to provide the Laboratory with a minimum total of 3,000 Samples (including urine, blood, ABP blood and DBS Samples) per year, 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 4.1.1.3 b): To determine the minimum number of Samples, each urine Sample, blood Sample, ABP blood Sample and DBS Sample 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 Provision of Business Plan

The <u>Applicant Laboratory</u> shall submit a business plan, upon request by *WADA*, which shall include market considerations (clients, number of *Samples*, maintenance costs, etc.), facility, instrumental, staffing and training needs, 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.

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 <u>Lab EAG</u>, determines that the <u>Applicant</u> <u>Laboratory</u> has satisfactorily met the criteria of Article 4.1, a recommendation will be forwarded to the *WADA* Executive Committee which will determine whether the laboratory will be granted *WADA* <u>Candidate Laboratory</u> 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.

4.1.2.1 Payment of Initial Accreditation Fee

Once approved by the *WADA* Executive Committee, the <u>Candidate</u> <u>Laboratory</u> shall pay a one-time non-refundable fee to *WADA* to cover the costs related to the initial 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 4.1.2.6. This fee shall be determined by *WADA* and will be specified in the Initial Application Form.

4.1.2.2 <u>Candidate Laboratory</u> Administrative and Technical Capabilities

Once approved by the *WADA* Executive Committee, the <u>Candidate</u> <u>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 will include, but is not limited to, the following information:

- a) Staff list and their qualifications.
- b) Description of the laboratory facilities and physical security (see Article 5.2.3.1).
- c) Description of the laboratory Information Technology (IT) infrastructure and security ((see Article 5.2.3.5).
- d) List of actual and proposed instrumental resources and equipment.
- e) Status and details of their Analytical Testing Procedures:
 - i. Status of validated <u>ITP</u>s and <u>CP</u>s, including target <u>Analytes</u> and <u>LOD</u>s, <u>LOI</u>s and, where applicable, <u>LOQ</u>s and <u>MU</u>s.
 - ii. Status of method development and validation, including, at minimum, Validation Reports for all mandatory <u>Analytical Methods</u> (if completed).
 - iii. Status of available <u>RMs</u> and <u>RCs</u> and plans for acquisition.
- f) List of laboratory sponsors.

g) Contract or Memorandum of Understanding with one or more Laboratory(-ies), which will provide mentoring and training for at least the period spanning the probationary phase of accreditation.

[Comment to Article 4.1.2.2 g): <u>Candidate Laboratories</u> are encouraged to establish agreement(s) 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.

A <u>Candidate Laboratory</u> shall obtain authorization from WADA to receive sensitive antidoping information (e.g., methodological or technological information, <u>TN</u>s) and/or to specific, WADA-developed anti-doping tests or materials (e.g., kits, <u>RM</u>s). WADA will approve such authorizations on a case-by-case basis according to the <u>Candidate</u> <u>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(-ies)</u> that will provide the information and/or access to the aforementioned tests and materials.]

- h) Status of ISO/IEC 17025 accreditation.
- Description of customs regulations in the host country with respect to the importation of Samples and EQAS samples, <u>RM</u>s and consumables from abroad and the ability to ship Samples outside the country as needed.
- j) A description of how the principles of the ISL Code of Ethics (see section 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 provision(s) of the ISL Code of Ethics (see Section 8.0).

- a) A <u>Candidate Laboratory</u> shall not conduct any anti-doping <u>Analytical</u> <u>Testing</u> activities for <u>Signatories</u> or <u>WADA</u> 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 Laboratory 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 will comply with the requirements of <u>Laboratory</u> independence and impartiality indicated in Article 4.1.4.2.5.

🖻 wada

4.1.2.5 Analytical Testing Procedures

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 *TD*s and *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.

4.1.2.6 Pre-Probationary Test (PPT) 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 of a <u>Candidate Laboratory</u>, as described in Articles 4.1.2.1 to 4.1.2.5, 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 EQAS: 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 *TD* <u>EQAS</u>. 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 *Prohibited Substances* and *Prohibited Methods* included in the <u>Analytical Testing</u> menus of <u>Laboratories</u>. In this regard, *WADA* will 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 *WADA* with a <u>LDOC</u> for selected <u>EQAS</u> sample(s) 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 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 Accreditation Body may be invited as an observer to the *WADA* onsite 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.
 - i. 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</u> <u>EAG</u>, and the recommendations for improvement should be implemented before the <u>Candidate Laboratory</u> can be accepted as a WADA <u>Probationary Laboratory</u>.
 - iii. The Candidate <u>Laboratory</u>'s performance in the PPT <u>EQAS</u> and on-site assessment will 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.

4.1.2.7 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 accreditation 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 4.1.3.4. and 4.1.3.10. This fee shall be determined by *WADA*.

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 may lead to a <u>Lab EAG</u> recommendation to the WADA 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 will be required to apply again for <u>Candidate Laboratory</u> status as described in Article 4.1.1.

4.1.3 <u>Probationary Laboratory</u> 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 *WADA* accreditation as a <u>Probationary Laboratory</u>, as determined by *WADA* (upon advice by the <u>Lab EAG</u>).

4.1.3.2 Compliance with the ISL Code of Ethics

The <u>Probationary Laboratory</u> shall implement and comply with the provision(s) of the ISL Code of Ethics (see Section 8.0).

- a) A <u>Probationary Laboratory</u> shall not conduct any anti-doping <u>Analytical</u> <u>Testing</u> activities for <u>Signatories</u> or <u>WADA</u> 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>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.

4.1.3.3 Provision of 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 research and development (R&D) activities.

🖻 wada

b) Official letter(s) of support from Signatories, e.g., NADOs or RADOs responsible for National Anti-Doping Program(s), International Federation(s) responsible for International Anti-Doping Program(s), DTPs in charge of Doping Control activities on behalf of ADOs. The letter(s) of support shall indicate a commitment to provide the Laboratory with a minimum total of 3,000 Samples (including urine, blood, ABP blood and DBS Samples) per year, 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 4.1.3.3 b): To determine the minimum number of Samples, each urine Sample, blood Sample, ABP blood Sample and DBS Sample 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.

4.1.3.4 Participating in the WADA EQAS Program

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 *WADA*-accredited laboratories.

- 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 <u>Analytical Testing</u> procedures.
- b) The <u>Probationary Laboratory</u> shall successfully report the results for the blind <u>EQAS</u> samples to WADA, in accordance with the TD EQAS, 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 TD EQAS and the TD PERF, respectively.

4.1.3.5 Planning and Implementing Research and Development (R&D) 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) R&D activities (e.g., new research projects, <u>Analytical Method</u> development) 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) During the probationary period, the <u>Probationary Laboratory</u> shall demonstrate its willingness and ability to collaborate and share knowledge with <u>Laboratories</u>.
- c) 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> <u>Laboratory</u>.

4.1.3.6 Obtaining ISO/IEC 17025 Accreditation by the Laboratory

The <u>Probationary Laboratory</u> shall obtain ISO/IEC 17025 accreditation from an Accreditation Body, with primary reference to the interpretation and application of the ISO/IEC 17025 requirements to the analysis of *Samples* (see Section 5.0).

- a) The Accreditation Body shall be an International Laboratory Accreditation Cooperation (ILAC) full member that is a signatory to the ILAC Mutual Recognition Arrangement (ILAC MRA).
- b) The Accreditation Body 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.

The ISO/IEC 17025 accreditation shall be obtained before the end of the probationary period and is required before *WADA* grants accreditation.

4.1.3.7 Laboratory 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.

4.1.3.8 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.

4.1.3.9 Analytical Testing Procedures

Before *WADA* grants accreditation, the <u>Probationary Laboratory</u> shall provide documentation to *WADA* demonstrating that all mandatory <u>Test</u> <u>Methods</u> have been validated, as determined by *WADA*, and included in the <u>Laboratory</u>'s Scope of ISO/IEC 17025 accreditation.

WADA will inform the <u>Probationary Laboratory</u> on the <u>Test Methods</u> that shall be validated to obtain accreditation.

4.1.3.10 WADA Accreditation Assessment - Final Accreditation Test (FAT)

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 <u>Probationary Laboratory</u> to manage multiple *Samples*.

a) Timeline: The <u>Probationary Laboratory</u> should prepare to successfully 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 WADA, 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 WADA (see Article 4.1.3.11).

At this stage, the <u>Probationary Laboratory</u> is expected to have developed full capacity for the analysis of *Prohibited Substances* and *Prohibited Methods* as mandatorily required from *WADA*-accredited laboratories. Therefore, compliance with the defined requirements in the Application of ISO/IEC 17025 to the analysis of *Samples*, the ISL and other *WADA* <u>Laboratory</u> standards (*TD*s, *TL*s, <u>LGs</u>), and the practice and documentation of the laboratory, will 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 *TD* <u>EQAS</u> and the *TD* PERF, respectively.
- c) FAT <u>EQAS</u> reporting: The <u>Probationary Laboratory</u> shall successfully report the results for the blind <u>EQAS</u> samples in the FAT 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>LDOC</u>s for selected <u>EQAS</u> sample(s) 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.
- AT EQAS evaluation: After receiving the FAT EQAS 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 Accreditation Body may be invited as observers to the *WADA* on-site assessment.

- f) FAT on-site assessment evaluation: WADA shall provide an FAT Assessment Report with the outcomes of the on-site assessment, including any identified nonconformity(-ies) for the <u>Probationary</u> <u>Laboratory</u> to implement the necessary improvements.
 - i. Identified nonconformities shall be addressed by the <u>Probationary</u> <u>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> and the recommendations for improvement should be implemented before accreditation can be granted.
- g) The <u>Probationary Laboratory</u>'s performance in the FAT and on-site assessment will be considered in the overall review of the <u>Probationary</u> <u>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 will 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, remotely 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 4.1.3.11).

4.1.3.11 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 <u>Lab</u> <u>EAG</u> recommendation to the *WADA* Executive Committee to revoke its probationary status.
- c) Upon request, a revoked probationary laboratory that wishes to continue its *WADA* accreditation process will 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 of WADA Accreditation

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 4.1.3.10) have been satisfactorily met, the <u>Lab EAG</u> will submit a recommendation that the laboratory be granted *WADA* accreditation to the *WADA* Executive Committee for approval.

The new WADA-accredited laboratory shall obtain a second opinion from an(other) <u>Laboratory(-ies)</u> before reporting an AAF or 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

An Accreditation Certificate signed by a duly authorized representative of *WADA* shall be issued in recognition of the Laboratory's *WADA* accreditation. The Accreditation Certificate shall specify the name of the Laboratory and the period for which the Accreditation Certificate is valid. Accreditation Certificates may be issued after the effective date, with retroactive effect.

A list of *WADA*-accredited laboratories, 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 will invoice the <u>Laboratory</u> for a non-refundable annual re-accreditation fee to partially cover the costs related to the reaccreditation 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 Laboratory shall maintain and document compliance with the provision(s) of the ISL Code of Ethics (see Section 8.0).

- 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* (Section 5.0), which is granted by an Accreditation Body, which is an ILAC full member and signatory to the ILAC MRA for testing activities as defined in ISO/IEC 17025.

- a) Inclusion of an <u>Analytical Testing Procedure</u> within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation establishes that the <u>Analytical Testing Procedure</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 in support of an analytical finding.
- b) <u>Laboratories</u> shall include <u>Analytical Testing Procedures</u> within their Scope of ISO/IEC 17025 Accreditation prior to application to the analysis of *Samples*.
 - i. However, under exceptional circumstances, a <u>Laboratory</u> may apply a method, which has been validated in accordance with applicable *TD*s, *TL*s or <u>LGs</u>, to the analysis of *Samples* before inclusion into the Laboratory's Scope of ISO/IEC 17025 Accreditation.
 - ii. In such cases, the <u>Laboratory</u> would not automatically benefit from the presumption that the method is <u>Fit-for-</u><u>Purpose</u>, as would otherwise be the case if the <u>Analytical</u> <u>Testing</u> <u>Procedure</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</u> <u>Method</u>, which is not within the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation, may require the <u>Laboratory</u> to provide method validation documentation or <u>EQAS</u> performance data in support of that AAF.

c) Flexible Scope of ISO/IEC 17025 Accreditation ³

A <u>Laboratory</u> may modify or add <u>Analytes</u> to <u>Analytical</u> <u>Testing Procedures</u>, which are included within its Scope of ISO/IEC 17025 Accreditation or develop new <u>Analytical</u> <u>Testing Procedure(s)</u> that involve technology already included within the Scope of ISO/IEC 17025 Accreditation, without the need for approval by the Accreditation Body 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 Accreditation Body that the <u>Laboratory</u> has the demonstrated competence to implement <u>Laboratory</u> processes and procedures following a <u>Flexible</u> <u>Scope of ISO/IEC 17025 Accreditation</u> 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>Analytical Testing</u> <u>Procedures</u> to detect new Prohibited Substances or Prohibited Methods, as well apply new technical and scientific developments in <u>Analytical</u> <u>Testing</u> for Doping Control.]

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

Any <u>Analytical Testing Procedure</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 <u>Laboratory</u>.

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 or *WADA*-organized <u>EQAS</u> round to evaluate whether the <u>Test Method</u> is <u>Fit-for-Purpose</u> prior to providing formal approval.

Before a new <u>Analytical Testing Procedure</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 Accreditation Body and may be required to successfully participate in an inter-laboratory collaborative study or a *WADA* <u>EQAS</u>, if available.

ii. WADA-specific Analytical Testing Procedures

WADA will require the <u>Laboratory</u> to seek an *extension* of their Scope of ISO/IEC 17025 Accreditation for WADA-

³ See ILAC-G29/06:2020 "Guidelines for harmonization of scopes of ISO/IEC 17025 accreditation of *WADA* anti-doping laboratories".

specific <u>Analytical Testing Procedures</u> before application to the analysis of <u>Samples</u>, even if the analytical technique involved is already incorporated in the <u>Laboratory</u>'s Scope of ISO/IEC 17025 Accreditation.

WADA will communicate to the <u>Laboratories</u> and to the Accreditation Bodies which <u>Analytical Testing</u> Procedures are included in this category.

In such cases, the <u>Analytical Testing Procedure</u> shall be validated by the <u>Laboratory</u>. The <u>Laboratory</u> may also be required to successfully participate in an inter-laboratory collaborative study or *WADA*-organized <u>EQAS</u> round to obtain an extension to the Scope of ISO/IEC 17025 Accreditation by a relevant Accreditation Body before introducing the <u>Analytical Testing</u> Procedure to the analysis of <u>Samples</u>. However, once a <u>WADA</u>-specific <u>Analytical Testing</u> Procedure is included within the Scope of ISO/IEC 17025 Accreditation, limited changes to this <u>Analytical Testing</u> Procedure may be allowed within the boundaries of a <u>Flexible Scope of ISO/IEC 17025</u> <u>Accreditation</u>.

Nonetheless, the <u>Laboratories</u> shall not flexibly introduce new <u>Analytes</u> within a *WADA*-specific <u>Analytical Testing</u> <u>Procedure</u> if specific method performance or reporting criteria (e.g., *DLs*) are necessary and those criteria are not yet defined in an applicable *TD* or *TL* (e.g., new target compound(s) for GC/C/IRMS analysis). In such cases, the <u>Laboratory</u> would have to request an extension to the Scope of ISO/IEC 17025 Accreditation and provide to the Accreditation Body all necessary data and information supporting their method performance or reporting criteria.

[Comment to Article 4.1.4.2.4 d): <u>Laboratories</u> shall not apply a WADA-specific <u>Analytical Testing Procedure</u> to the analysis of Samples until the <u>Test Method</u>, and the <u>Analyte(s)</u> included in the <u>Test Method</u>, are included in the <u>Laboratory's</u> Scope of ISO/IEC 17025 Accreditation.]

4.1.4.2.5 Laboratory 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 *Anti-Doping Organization*, 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 manage its own management system and operational affairs without obstruction, interference, or manipulation from any *Person*. The <u>Laboratory</u> shall, without limitation, control: the allocation of its budget, the procurement of equipment and other resources, <u>Laboratory</u> personnel decisions, the research conducted by the <u>Laboratory</u> and all *Sample* <u>Analytical Testing</u> 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), *ADOs*, 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 EQAS Program

<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 *TD* <u>EQAS</u>.

4.1.4.2.7 Providing 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 *Signatories* based on the assessment of the <u>Laboratory</u> annual *Testing* figures, or as otherwise determined by *WADA*.

4.1.4.2.8 Maintain Minimum Number of Samples

To maintain proficiency in <u>Analytical Testing</u>, <u>Laboratories</u> are required to analyze a minimum of 3,000 *Samples* (including urine, blood, *ABP* blood and DBS *Samples*) per year, of which at least 2,500 shall be urine *Samples*, provided annually by *Signatories*.

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

WADA will monitor the number of *Samples* tested by the <u>Laboratory</u>. If the total number of *Samples* analyzed for *Signatories* falls below 3,000 per year (or below 2,500 urine *Samples* per year), the <u>Laboratory</u>'s *WADA* accreditation may be suspended in accordance with Article 7.1.1.1.

However, it is recognized that specific circumstances may affect a <u>Laboratory</u>'s ability to analyze the minimum number of *Samples* annually, such as when a *Signatory* is declared noncompliant with the *Code* by *WADA*, or when the <u>Laboratory</u> is not operational, for reasons accepted by *WADA*. In such cases, the <u>Laboratory</u>'s *WADA* accreditation status may not be affected but *WADA* will require that the <u>Laboratory</u> implement measures to maintain its proficiency in <u>Analytical Testing</u>, for example by strengthening its internal Quality Assurance Scheme (iQAS) and internal audits program. *WADA* may also provide additional <u>EQAS</u> samples and/or conduct a documentary audit and/or an on-site or remote (on-line) assessment, at its discretion, to assess the status of the <u>Laboratory</u>'s operations.

4.1.4.2.9 Implement Research and Development (R&D) 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 <u>Laboratory</u> of an adequate R&D and Sharing of Knowledge program 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): This research may include the development of new Analytical <u>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 emerging 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. 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 Laboratories.
- 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 of 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. An R&D unit/department, clearly identified on the <u>Laboratory</u> organigram.

[Comment to Article 4.1.4.2.9 d): The R&D unit/department shall define its objectives, the deliverables envisaged, the timetable for achieving them, and the knowledge dissemination scheme (e.g., number of papers to be published in international peer-reviewed scientific journals, number of collaborative projects, number of poster communications, participation in anti-doping science events, staff participation in training sessions and provision of training opportunities to other <u>Laboratories</u>, probationary laboratories or <u>Candidate Laboratories</u>]. The <u>Laboratory</u> shall also define the frequency with which the R&D objectives should be reviewed and updated].

- ii. A qualified *Person*(s) responsible for R&D activities. The qualifications should include:
 - A Master's or PhD degree in one of the natural or life sciences;
 - Ability to plan and execute research projects within budget and on schedule;
 - Sound technical knowledge in *Doping Control*, including the *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;

- Communication skills to enable the research results to be communicated effectively (verbally and in writing) and to be promoted through the writing of scientific papers.
- 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 <u>Aliquots</u> 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 <u>Aliquots</u> (see also 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 an indexed and 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.]

- ii. 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 probationary laboratories in specific areas of <u>Analytical Testing</u>.

- 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 will serve as the basis for assessing the <u>Laboratory</u>'s contribution to the development of anti-doping science.
 - Following the evaluation of the <u>Laboratory</u>'s R&D and Sharing of Knowledge Activity Report by the <u>Lab</u> <u>EAG</u>, 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 penalty points (see *TD* PERF) and/or in a <u>Lab EAG</u>'s recommendation to the Chair of the *WADA* Executive Committee to suspend the <u>Laboratory's WADA</u> accreditation.

4.1.4.2.10 Publication of <u>Laboratory</u> <u>Analytical Testing Procedures</u>, Services and Fees

The <u>Laboratory</u> shall report and maintain in *ADAMS* an up-todate list of <u>Analytical Testing Procedures</u> and services, including standard prices, to assist *ADOs* in developing <u>TDP</u>s.

Upon request by an *ADO*, the <u>Laboratory</u> should cooperate by providing other relevant information (e.g., <u>Laboratory</u> analytical capabilities) to assist the *ADO* with their *Testing* plans.

4.1.4.2.11 Participating in WADA / Accreditation Body Assessments

- a) Accreditation Body assessment during the Accreditation Cycle
 - i. The Accreditation Body assessment team shall include at least one ISL-trained assessor selected by the Accreditation Body for the assessment.
 - ii. The relevant Accreditation Body should 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 Accreditation Body's Assessment Report.
 - iii. 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 Accreditation Body.

b) WADA Laboratory Assessment

WADA reserves the right to conduct document audits and/or on-site and/or remote (on-line) assessments of the <u>Laboratory</u> at any time, at WADA's expense. The notice of a WADA assessment will be made in writing to the <u>Laboratory</u> Director. In exceptional circumstances, and at WADA's discretion, the assessment may be unannounced (for more information on WADA <u>Laboratory</u> assessments, see Article 6.1.2).

4.1.4.2.12 Issuing and Publication of Accreditation Certificate

On an annual basis, when maintenance of accreditation is approved, the <u>Laboratory</u> shall receive a WADA Accreditation Certificate, signed by a duly authorized representative of WADA, which is issued in recognition of such accreditation. The Accreditation Certificate shall specify the name of the <u>Laboratory</u> and the period for which the Accreditation Certificate is valid. WADA Accreditation Certificates may be issued after the effective date, with retroactive effect.

The list of *WADA*-accredited Laboratories, and their contact information, is maintained on *WADA*'s website.

4.2 WADA <u>ABP Laboratory</u> Approval

The network of *WADA*-accredited laboratories may be geographically limited to serve the practical development of the Hematological Module of the *ABP*. Therefore, non-*WADA*-accredited laboratories, which have the capability to analyze the blood *Markers* of the *ABP*, may apply for *WADA* approval for the purposes of analyzing blood *Samples* in support of the Hematological Module of the *ABP* 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 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> for the ABP on a regional or national scale, or for any other reason(s).

[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 ABP blood Samples.]

🖻 wada

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 <u>ABP Laboratory</u>.

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 <u>Lab EAG</u>.

An <u>Applicant ABP Laboratory</u> may only submit an application if its host country satisfies the following conditions:

a) The existence of a robust National Anti-Doping Program conducted by a NADO and/or a RADO which is compliant with the Code and the International Standards of the World Anti-Doping Program.

[Comment Article 4.2.1.2 a): The host country's National Anti-Doping Program will be evaluated regarding their <u>TDP</u>, Sample collection and Results Management activities.]

- b) The National Anti-Doping Program in the host country of the <u>Applicant ABP</u> <u>Laboratory</u> shall have demonstrated, in the most recent full year, that its <u>Sample</u> collection activities included the analysis of at least 200 blood ABP <u>Samples</u>, collected in compliance with the IST (as determined by WADA) and analyzed in a <u>Laboratory</u>(-ies) or <u>ABP Laboratory</u>(-ies).
- c) The ratification of the UNESCO Convention against Doping in Sport, and
- d) The payment of the annual financial contributions to WADA.

These conditions shall be documented as part of the application.

4.2.1.3 Provision of Letter(s) of Support

Upon receipt of an application and verification of the conditions mentioned above, *WADA* shall request that the <u>Applicant ABP Laboratory</u> submit letter(s) of support from *Signatories*, such as *NADOs* or *RADOs* responsible for National Anti-Doping Program(s), or International Federation(s) responsible for International Anti-Doping Program(s), or *DTP*s in charge of *Doping Control* activities on behalf of *ADOs*, guaranteeing a minimum total number of 300 *ABP Samples* annually. The letter(s) of support shall indicate:

- a) The estimated number of *ABP* blood *Samples* that will be provided to the <u>Applicant *ABP* Laboratory</u> 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* that their relationship to the <u>Applicant ABP Laboratory</u> is compliant with Article 4.1.4.2.5.

4.2.1.4 Provision of Business Plan

The <u>Applicant ABP Laboratory</u> shall submit a business plan, upon request by WADA, which shall include market considerations (clients, number of *Samples*, maintenance costs, etc.), facility, instrumental, staffing and training needs, 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 <u>Lab EAG</u>, determines that the applicant <u>ABP Laboratory</u> has satisfactorily met the criteria of Article 4.2.1, a recommendation will be forwarded to the WADA Executive Committee to determine whether the <u>Applicant ABP Laboratory</u> will be granted WADA <u>Candidate</u> <u>ABP Laboratory</u> status and thereby continue within the WADA approval process. Additional supporting documentation may be requested by, and at the discretion of, the WADA Executive Committee

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

- a) List of laboratory staff that will be responsible for the *ABP* analyses and their qualifications.
- b) Laboratory facilities and physical security: see Article 5.2.3.1.
- c) IT infrastructure and security: see Article 5.2.3.5.
- d) List of actual and proposed instrumental resources and equipment for the *ABP*.
- e) Status of the *ABP* method development and validation. Method validation report (if completed).
- f) Status of ISO/IEC 17025 or ISO 15189 accreditation.
- g) Status of Laboratory's independence and impartiality as described in Article 4.1.4.2.5
- b) 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.
- i) 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.

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

[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 provision(s) of the ISL Code of Ethics (see Section 8.0).

- a) The <u>Candidate ABP Laboratory</u> shall not conduct any anti-doping <u>Analytical Testing</u> activities for Signatories or WADA and shall not accept Samples directly from individual Athletes 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 Participating in the WADA <u>EQAS</u> Program for the analysis of ABP blood Markers

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

4.2.2.4 Laboratory Independence and Impartiality

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

4.2.2.5 Obtaining ISO/IEC 17025 or ISO 15189 Accreditation

The <u>Candidate ABP Laboratory</u> shall obtain ISO/IEC 17025 or ISO 15189 accreditation from an Accreditation Body.

a) The Accreditation Body shall be an International Laboratory Accreditation Cooperation (ILAC) full member that is a signatory to the ILAC Mutual Recognition Arrangement (ILAC MRA).

- b) The Accreditation Body assessment team shall include at least one ISL-trained assessor selected by the Accreditation Body 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 Accreditation Body 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 Laboratory</u> 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 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.

4.2.2.7 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 laboratory has successfully completed all the requirements outlined in Articles 4.2.2.1 to 4.2.2.6.

[Comment to Article 4.2.2.7: The purpose of this assessment is to obtain information about different aspects of the <u>Candidate Laboratory</u>'s competence and verify compliance with the relevant ISL and TD requirements (in particular, the TD BAR)).

At WADA's discretion, the on-site assessment for the ABP approval may not be necessary or may be conducted on-line 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 ABP</u> <u>Laboratory</u>'s expense.
- b) The <u>Candidate ABP Laboratory</u> shall have participated in a minimum of one (1) WADA <u>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 Laboratory</u> to WADA within thirty (30) days, or as otherwise indicated by WADA.

d) The nonconformities identified in the *WADA* Assessment Report shall be satisfactorily addressed and the recommendations for improvement should be implemented before the end of the candidate *ABP* approval phase as per Article 4.2.2.8.

The laboratory's performance in the *WADA* <u>EQAS</u> and on-site assessment will be considered in the overall review of the laboratory's status and may affect the timeliness of the *WADA* approval.

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 WADA 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> will submit a recommendation to the *WADA* Executive Committee to grant the laboratory the status of an <u>ABP Laboratory</u>.

4.2.3.2 Issuing and Publishing of WADA ABP Approval Certificate

A *WADA* Approval Certificate signed by a duly authorized representative of *WADA* (exclusive to <u>Analytical *Testing*</u> in support of the Hematological Module of the *ABP*) shall be issued in recognition of the Laboratory's *WADA ABP*-approval.

The WADA ABP Approval Certificate shall specify the name of the <u>ABP</u> <u>Laboratory</u> and the period of validity. WADA ABP Approval Certificates may be issued after the effective date of the WADA approval, with retroactive effect.

A list of <u>ABP Laboratories</u>, and their contact information, shall be maintained on *WADA*'s website for stakeholder reference.

4.2.3.3 Maintaining <u>ABP Laboratory</u> Status

The laboratory shall meet the following requirements to maintain its *WADA* approval status for the *ABP*:

- a) Documented compliance with the ISL Code of Ethics (Annex A).
- 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, as determined by WADA, in a WADA EQAS or similar WADA-approved Quality Assurance program for the analysis of ABP blood Markers and during routine <u>Analytical Testing</u> of ABP blood Samples.
- f) Payment of fees related to the WADA <u>EQAS</u> or similar WADAapproved Quality Assurance program for the analysis of ABP blood Markers.
- 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>Analytical Testing Procedure(s)</u> for the measurement of individual *Athlete* blood *Markers*, which are compliant with the *TD* BAR.
- i) Compliance with relevant *WADA* normative documents, including the relevant articles of ISL Section 5.0 and *TD*s and *TL*s applicable to the analysis of *ABP* blood *Samples* (e.g., *TD* <u>LDOC</u>, *TD* <u>LCOC</u>).
- j) Provision of Letter(s) of support from *Signatories*, if requested by *WADA*, as described in Article 4.2.1.3.
- k) Analysis of a minimum of 300 *ABP* blood *Samples* provided annually by *Signatories*.
- Maintaining up-to-date prices in ADAMS for blood ABP analytical services to assist ADOs in developing <u>TDP</u>s. Upon request by an ADO, <u>ABP Laboratories</u> should cooperate with the ADO by providing other relevant information regarding *Testing* plans (e.g., <u>ABP</u> <u>Laboratory</u> analytical capabilities).
- m) Participation in *WADA* / Accreditation Body assessments (see Article 4.1.4.2.11).
- n) Cooperation in support of the administrative and legal processes instigated when anti-doping rule violations are issued and managed by *ADOs*.

4.2.3.4 Issuing and Publishing of 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 signed by a duly authorized representative of WADA (exclusive to <u>Analytical Testing</u> in support of the Hematological Module of the ABP), which is issued in recognition of such approval.

- b) The WADA ABP Approval Certificate shall specify the name of the <u>ABP Laboratory</u> 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</u> Accreditation Requirements for <u>Major Events</u>

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 <u>Laboratory</u> to conduct appropriate *Doping Control.*

MEOs should give preference to the use of an existing <u>Laboratory</u> 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 *Samples* can be delivered by *Doping Control* staff. This may require an existing <u>Laboratory</u> to establish a temporary "satellite facility" with appropriate capabilities for the <u>Major *Event*</u>.

In addition, an existing <u>Laboratory's</u> operational environment (e.g., facilities, capabilities, staff) may not be adequate for the analytical and *Sample* handling capacity necessary for a <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 Director 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.

There shall be an agreement, sufficiently ahead of the <u>Major Event</u>, between the MEO and the <u>Laboratory</u> with respect to <u>Analytical Testing</u> requirements such as test result turnaround time, the expected number of blood and urine <u>Samples</u> to be analyzed, and the number of specific analyses (i.e., not considered as part of the routine <u>Analytical Testing</u> menu) required for the <u>Major Event</u>. The <u>Laboratory</u> shall be responsible for providing <u>WADA</u> with regular and timely progress reports regarding its preparations for the <u>Major Event</u>.

4.3.1 <u>Major Event Analytical Testing</u> in the <u>Laboratory</u> Facilities

When <u>Analytical Testing</u> services for a <u>Major Event</u> are provided in the existing facilities of a <u>Laboratory</u>, the WADA accreditation status of the <u>Laboratory</u> shall apply, and no additional WADA 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.

All new <u>Test Methods</u> for the <u>Major *Event*</u> shall be validated at least one (1) month prior to the start of <u>Analytical *Testing*</u> for the <u>Major *Event*</u>. In addition, any changes to <u>Test Methods</u>, equipment or other procedures in the Management System shall also be validated and included in the <u>Laboratory's</u> 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 Participation in WADA Assessment(s)

WADA may perform one or more assessment(s) (preferably on-site) of the Laboratory's existing facilities with the aim of evaluating the <u>Laboratory</u> operations and capability to provide <u>Analytical Testing</u> services for the <u>Major Event</u>.

- a) The number and type of assessments (on-site, remote and/or documentary audit) will be determined by WADA based on the scale of the <u>Major Event</u>'s <u>TDP</u> and the <u>Laboratory</u>'s progress in preparing for the <u>Major Event</u>. The assessment(s) may include analysis of a set of <u>EQAS</u> samples.
- b) Costs related to the WADA assessments shall be at the <u>Laboratory</u>'s expense.
- c) A first WADA assessment should be conducted at least six (6) months before the scheduled start of the <u>Analytical Testing</u> for the <u>Major</u> <u>Event</u>. Emphasis will be placed on the completed and planned implementation of the following:
 - i. The latest version of the *MEO*'s <u>TDP</u> shall be provided 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> space to ensure that there is adequate analytical and *Sample* handling capacity (based on the expected number of *Samples* and reporting deadlines), including the separation of analytical and administrative areas of the <u>Laboratory</u>.
 - iii. The <u>Laboratory's</u> external security including the entry and exit points which shall be restricted to authorized personnel only.
 - iv. The <u>Laboratory's</u> internal security including restricted and dedicated <u>Laboratory</u> controlled zones (in particular analytical area(s), the *Sample* reception/processing room and the *Sample* storage units).

[Comment to Article 4.3.1.1: If requested by the MEO and in accordance with applicable national laws or workplace regulations, <u>Laboratories</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's</u> dedicated space and security measures for the "B" Sample opening procedure, including appropriate provisions to ensure the confidentiality of the *Athlete*(s).
- vi. The <u>Laboratory</u>'s IT security system, including restricted and secure central server(s), data management system (e.g., 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 Laboratory 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>Analytical Testing Procedure</u>.
- viii. The recruitment, training and logistics plans for the external scientists, including the names, expertise, and area(s) of responsibility 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 qualify additional instrumentation to meet the <u>Analytical Testing</u> requirements for the <u>Major Event</u>.
- x. The capacity of the <u>Laboratory</u>'s existing <u>Analytical Testing</u> <u>Procedures</u>, including plans and timelines for method development and validation to meet any additional <u>Analytical Testing</u> requirements for the <u>Major Event</u>.
- xi. The <u>Laboratory</u>'s Scope of ISO/IEC 17025 accreditation including any planned additions to the scope of accreditation.
- xii. The status of the <u>Laboratory's</u> stock of <u>RMs</u>, including the plans to order, qualify <u>and</u> validate any new <u>RMs</u> and/or <u>RCs</u>.
- xiii. The <u>Laboratory</u>'s internal Quality Assessment Scheme (iQAS) and internal <u>audit</u> 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 <u>the</u> performance of the <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>.
- xv. <u>Assessment</u> of compliance with the ISL and its related *TD*s, *TL*s and applicable <u>LGs</u>.
- d) A second WADA assessment, if necessary, should be conducted at least two (2) months before the start of <u>Analytical Testing</u> for the <u>Major</u> <u>Event</u>. At this stage, the <u>Laboratory</u> shall be ready to begin <u>Analytical</u> <u>Testing</u> for the <u>Major Event</u>, including pre-Event Testing, if applicable. The focus of the assessment is to verify that:
 - i. All construction 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" Sample 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.
- iv. All required equipment and supplies are received, including <u>RMs</u> and/or <u>RCs</u>.
- v. All staff recruitment is completed, including agreements, logistics and schedules for external experts.
- vi. All corrective actions from the prior *WADA* assessment have been satisfactorily addressed.
- vii. The <u>Laboratory</u> has successfully conducted at least one (1) "stress test" to evaluate its readiness for the <u>Major Event</u>.
- e) 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.
- f) 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 Laboratory before the scheduled start of the <u>Analytical Testing</u> for the <u>Major Event</u>.
- g) An Assessment Report will be issued to the <u>Laboratory</u> and the <u>Lab</u> <u>EAG</u> for 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 <u>Analytical Testing</u> for the <u>Major Event</u>.

4.3.1.2 Participation in the WADA EQAS

At its sole discretion, *WADA* may submit <u>EQAS</u> samples to the <u>Laboratory</u> for analysis.

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 disqualification of the <u>Laboratory</u> from performing the <u>Analytical Testing</u> for the <u>Major Event</u>.

The <u>EQAS</u> should be conducted at a time which includes as many <u>Major</u> <u>Event</u> staff (<u>Laboratory</u> staff and temporary external experts) as possible. The <u>EQAS</u> samples shall be analyzed using the same <u>Analytical Testing</u> <u>Procedures</u> that will be applied in the analysis of <u>Samples</u> for the <u>Major</u> <u>Event</u>.

4.3.1.3 Pre-Event Report

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

- a) A valid signed contract between the <u>Laboratory</u> and the responsible <u>TA</u>/MEO including a <u>TDP</u> detailing the Sample collection schedule, number of urine and blood Samples and requests for specific analyses (e.g., EPO).
- 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 responsibility).
- 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>. Emphasis should be given to the ISL Code of Ethics and the confidentiality of the *Results Management* process. Adequate documentation of training of these temporary employees shall be maintained by the <u>Laboratory</u>.
- e) A list of instrumental resources and equipment including identification of ownership.
- A list of <u>Analytical Testing Procedures</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 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 *Samples* 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 SOP for conducting "B" <u>CP</u>s, which <u>ensures</u> 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 5.3.4.2.2.3 e), a representative from WADA or WADA's Independent Observers (IO) Team for <u>Major Events</u> (if requested by WADA or the IO team, respectively) shall be authorized to attend the "B" Sample <u>CP</u>.
- c) The scheduling of the "B" Sample <u>CP</u> shall be made as soon as possible, in consultation with the *MEO*, and considering that 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 *MEO* shall clarify the reporting timelines for <u>Negative Findings</u>, *AAF*s, *ATF*s and the reporting of specific test results (e.g., GC/C/IRMS, EPO).

4.3.2 <u>Major Event Analytical Testing</u> in "Satellite" <u>Laboratory</u> 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 <u>Test</u> <u>Methods</u>.

4.3.2.1 Participating in WADA Assessment(s)

WADA may perform an initial assessment of the <u>Laboratory</u> "satellite facility" 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 will 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> are 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* assessments in preparation for a <u>Major Event</u> refer to Article 4.3.1.1.

4.3.2.2 Documenting ISO/IEC 17025 Accreditation of the "Satellite Facility"

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

4.3.2.3 Professional Liability Insurance Coverage

Before *WADA* grants accreditation to the "satellite" facility for <u>Analytical</u> <u>*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* <u>during</u> 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 <u>Major Event</u>.

4.3.2.4 Obtaining 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 assessment.
- c) Based on the documentation provided, *WADA* reserves the right to decide regarding 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</u> <u>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 <u>TA</u>/MEO to activate a contingency plan to ensure that <u>Analytical</u> <u>Testing</u> of Samples is conducted in compliance with ISL requirements during the <u>Major Event</u>.

⊟ wada

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

5.1 Introduction and Scope

This section 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 *TD*s, *TL*s or <u>LGs</u> shall be governed by ISO/IEC 17025 (or ISO 15189, as applicable for <u>ABP Laboratories</u>).

This section focuses on the specific parts of the <u>Laboratory Analytical Testing</u> processes that are critical to the quality of the laboratory's performance as a <u>Laboratory</u> or <u>ABP</u> <u>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) Structural and Resource Requirements,
- b) Process Requirements,
- c) Management Requirements.

5.2 Structural and 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 associated Laboratory normative documents (*TD*s, *TL*s, <u>LGs</u>).

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>LCOC</u> protocols, and the Standard Operating Procedures (SOPs) for the <u>Analytical Testing Procedure</u>(s) performed.

Specific criteria shall be met by the Laboratory Director, Laboratory Quality Manager 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 a full-time appointment. If the Laboratory Director holds other positions, they shall not adversely impact the Director's Laboratory responsibilities.
- f) The Laboratory Director's qualifications shall include:
 - i. 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 anti-doping 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), including the documented ability to develop analytical methodology and oversee research projects; or
 - In the absence of a postgraduate degree, a Bachelor degree in one of the natural or life sciences and extensive and appropriate laboratory experience and training (e.g., a senior laboratory position for a minimum of ten (10) years), including the documented ability to develop analytical methodology and oversee research projects.
 - 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. For non-native English speakers, proficiency should be at least at a level B2 of the European Framework of Reference for Languages (CEFR), or similar.

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 his/her position. A succession plan shall be forwarded to WADA. WADA reserves the right to review the credentials of such appointment and either approve or reject the candidate in accordance with the above qualifications.

5.2.2.2 Laboratory Quality Management Staff

- a) 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. 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.
- c) The Laboratory Quality Manager/Management Team members qualifications shall include:
 - i. At least 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 analytical 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 Laboratory Certifying Scientists

- a) The Laboratory shall have enough qualified personnel to serve as Certifying Scientists to review all pertinent Analytical Data, <u>Analytical</u> <u>Method</u> validation results, quality control results, <u>LDOC</u>s and <u>CoA</u>s, 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 <u>LCOC</u>, and proper implementation of corrective actions in response to analytical problems.
- c) The qualifications of Certifying Scientists shall include:

- i. At least 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. Knowledge of relevant *TD*s, *TL*s, <u>LGs</u>, <u>TN</u>s 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 dedicated administrative, *Sample* handling, *Sample* storage and analytical areas, which comply with the security requirements outlined below:

- a) The Laboratory shall have a policy for the security of its facilities, equipment, and systems against unauthorized access, which may include a threat and risk assessment performed by expert(s) in the relevant field.
- b) Two (2) main levels of access shall be defined in the Management System and evaluated in the threat assessment plan:
 - i. 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;
 - The Laboratory shall require authorized individuals to carry an identification badge while in the Laboratory facilities.
 - ii. Controlled Zones: Access to these areas shall be restricted (e.g., by using electronic access system(s) 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 restricted to Laboratory staff and temporarily approved/authorized personnel (e.g., maintenance engineers, auditing teams). All other visitors to the Laboratory Controlled Zones shall be continuously escorted by Laboratory staff member(s). Access to the Laboratory Controlled Zones shall be defined in the Laboratory's Management System;
- The <u>Laboratory</u> shall have a dedicated area within the Controlled Zone for Sample receipt and <u>Aliquot</u> preparation. Access to the <u>Laboratory</u>'s <u>Sample</u> receipt and <u>Aliquot</u> preparation area shall be restricted to authorized personnel, based on a risk assessment by the <u>Laboratory</u>;
- The Laboratory shall have a dedicated Sample storage area. Access to stored Samples⁴ 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 Accreditation Body (evidence of continued accreditation and/or acceptance of suitability of the new Laboratory facilities required when made available by the Accreditation Body).
- d) New Laboratory contact information and coordinates.
- e) Assessment of the effect of the Laboratory relocation on client 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 use of controlled chemicals and reagents, waste disposal procedures, electrical services, environmental health and safety policies, etc.

⁴ This refers to "A" and "B" Samples and ABP blood Samples stored in Sample collection containers (e.g., urine collection bottles, blood collection tubes) and shall not be confused with access to <u>Aliquots</u>, which should be accessible to analysts for the performance of <u>Analytical Testing Procedures</u>.

🖻 wada

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 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 freezer/refrigerator equipment failure.

5.2.3.4 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 blood 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 a 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.
- b) Access to Laboratory computer terminals, computers, servers, or other operating equipment shall be restricted to authorized personnel (e.g., by using access passwords).
- c) The Laboratory shall implement a data and information management system, a software-based solution that supports and maintains proper traceability of Laboratory operations (e.g., a Laboratory Information Management System, LIMS) with secure and restricted access to stored electronic data by authorized personnel as well as information and data exchange capabilities including between the Laboratory and *ADAMS*.

[Comment to Article 5.2.3.5 c): The data and information management system may also feature workflow management, data tracking support, Sample and <u>Aliquot LCOC</u>, control of stocks of <u>RM</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 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, 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>Analytical Testing Procedures</u> in accordance with ISO/IEC 17025 requirements (or ISO 15189, as applicable for <u>ABP</u> <u>Laboratories</u>).
- 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.

🖻 wada

5.2.5 Metrological Traceability – Use and Control of Chemicals, Reagents and Reference <u>Materials (RM</u>s)

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

5.2.5.1 <u>RM</u>s

 a) When available, <u>RM</u>s 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 a <u>RM</u> is not a <u>CRM</u>, the Laboratory shall verify its identity and <u>Fitness-for-Purpose</u> by comparison with published or internal Laboratory data and/or by chemical characterization.

b) Where justifiable (e.g., in cases of unavailable, rare, or difficult to obtain <u>RM</u> or <u>RC</u>), the Laboratory may consider using in-house prepared <u>RMs</u> (in accordance with ISO Guide 80) or extending the <u>RM</u> 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 a <u>RM</u>, <u>RC</u>, or solution shall be described in the Laboratory's Management System documentation.

[Comment to Article 5.2.5.1 b): Such extension of the expiration date of <u>RM</u>s is not permitted for <u>RM</u>s used in the confirmatory quantification of <u>Threshold Substances</u>.]

5.2.5.2 RCs

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

- a) An external quality control sample.
- b) A past *Sample* used for *Quality Assurance* in accordance with Article 5.3.8.2.
- c) An isolate from a urine or blood sample after a controlled administration.
- d) An *in vitro* incubation with liver cells, microsomes or biological fluids.

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

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 <u>TA</u>. 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 <u>ATR</u> imposed on the <u>Laboratory</u>.
 - iii) Other justifications such as a need for higher 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 <u>Aliquot(s)</u>, appropriately secured to ensure Sample integrity during transportation, may be transferred for "A" Sample analyses (<u>ITP</u> and <u>CP</u>, if needed). However, for any analysis to be performed on "B" Samples, 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 *Sample* reception by the subcontracted <u>Laboratory</u>. Such arrangements shall be clearly recorded as part of the *Sample's* 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>.
- b) 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 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 *International Standard* for *Testing* (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 LCOC 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* shall be inspected, and identified irregularities recorded (see Article 5.3.2.1). However, *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 <u>Further Analysis</u>.
- e) The Laboratory shall have a system to uniquely identify the *Samples* and associate each *Sample* with the collection document or other external chain of custody information.

5.3.2 Acceptance of Samples for Analysis

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

a) In cases where the <u>Laboratory</u> receives two (2) urine Samples, which are linked to a single <u>Sample Collection Session</u> from the same Athlete according to the Doping Control Forms (DCF), the <u>Laboratory</u> shall analyze both Samples 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>Analytical Testing</u> <u>Procedure(s).</u>]

🖻 wada

b) In cases where the <u>Laboratory</u> receives three (3) or more urine Samples, which are linked to a single <u>Sample Collection Session</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 measured by the <u>Laboratory</u>:

[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>Analytical Testing Procedure</u>(s).

With the agreement of the <u>TA</u>, the <u>Laboratory</u> may store the additional, non-analyzed Samples for Further<u>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 and/or venous blood Samples during the same <u>Sample Collection Session</u>, provided that the <u>TA</u> has requested via ADAMS and in advance that the <u>Laboratory</u> put the DBS Samples in storage without initial analysis, and that the Athlete has consented to the collection of the DBS Sample for storage and possible future analysis without first being subject to an <u>Analytical Testing Procedure</u>.

In those cases, the <u>Laboratory</u> shall report the DBS *Sample* as Not Analyzed in *ADAMS* (see Article 5.3.6.4.1) until such a time that the DBS *Sample* is analyzed and the *ADAMS Sample* record is updated accordingly.

e) Except as provided in this Article 5.3.2, urine and/or venous blood Samples from a Signatory 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>Analytical</u> <u>Testing Procedure</u>.

5.3.2.1 Samples with Irregularities

- a) The Laboratory shall observe and document 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>Analytical Testing</u> <u>Procedures</u> (with the exception of the situation when a large number of Samples, which have already been analyzed, are received for longterm storage only (e.g., from a MEO] (see Article 5.3.7.1)).
- b) Only unusual conditions shall be recorded. Irregularities to be noted by the Laboratory may include, but are not limited to:
 - i. Inadequate *Sample* transportation conditions, which may impact the integrity of the *Sample*, for example:
 - Long delivery time;
 - Samples exposed to high temperatures;
 - Blood Samples received frozen or clotted;
 - Damaged transportation packages;

- Missing "A" or "B" Samples;
- "A" or "B" Sample broken, empty, damaged or leaking;
- Issues with temperature logger, e.g., not working, not started, has stopped, or is absent (when applicable).
- 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;
 - Absence of barcodes on Sample container;
 - Sample identification numbers are different between the "A" and the "B" Sample containers of the same Sample;
 - 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;
 - The test menu requested is incompatible with the Sample matrix.
- iii. Unusual Sample conditions, for example:
 - Color, odor, presence of turbidity or foam in a urine Sample; color, signs of hemolysis, freezing or clotting of a blood Sample; unusual differences in Sample appearance (e.g., color and/or turbidity) between the "A" and the "B" Samples (see TL14);
 - Insufficient Sample volume;
 - Incorrect Sample matrix (e.g., blood Samples collected in EDTA instead of serum tubes);
 - Sample volume does not meet the <u>Suitable Volume of Urine for</u> <u>Analysis</u> or is otherwise inadequate to perform the requested <u>Analytical Testing</u> menu;
 - The Laboratory cannot open the Sample container;
 - Tampering or adulteration of the Sample is evident;
 - Sample is not properly sealed with Tampering-evident device.
- c) The <u>Laboratory</u> shall inform and seek instructions from the <u>TA</u> on the performance of <u>Analytical Testing</u> on a <u>Sample</u> with irregularity(-ies). The <u>TA</u> shall inform the <u>Laboratory</u> in writing within seven (7) days whether a <u>Sample</u> with 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.]

d) Whether a *Sample* with noted irregularities is analyzed or not following the <u>TA</u> instructions, the Laboratory shall record any irregularities that impact the *Sample*'s chain of custody or integrity in *ADAMS*.

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* container has not been properly sealed or has been broken.
 - iii. The Sample's integrity has been compromised in any way.
 - iv. The Sample is heavily contaminated.
 - v. 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 not to 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 <u>TA</u>.
- c) The process of opening and splitting the *Sample* and resealing of the remaining second fraction shall be conducted in accordance with Article 5.3.4.2.2.3 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 will occur on a specified date and time and advising the *Athlete* of the opportunity to observe the process in person and/or through a representative.
 - ii. If the *Athlete* cannot be located, does not respond or the *Athlete* and/or his/her 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>.

[Comment to Article 5.3.2.2. c): If the Athlete chooses to witness the Sample splitting procedure, the Athlete takes responsibility for forfeiting their anonymity.]

- d) When the splitting procedure concerns blood Samples, which have been collected for <u>Analytical Testing</u> on the blood serum/plasma fraction, the sealed, intact ("A" or "B") Sample shall be centrifuged as soon as practical after <u>Laboratory</u> reception to obtain the serum or plasma fraction.
 - i. 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 immediately above.
- e) The first fraction of the split Sample shall be considered as the "A" Sample and shall be used for the <u>ITP</u>s, unless the <u>ITP</u>s have already been performed, and/or the "A" <u>CP</u>s, if necessary. The second fraction, considered as the "B" Sample, shall be resealed, and stored frozen for "B" <u>CP</u>s, if necessary.

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>ITP</u> or <u>CP</u> shall minimize the risk of contamination of the *Sample* or <u>Aliquot</u>.
- c) The <u>Laboratory</u> shall use new material(s) (e.g., new test tubes) to take <u>Aliquots</u> for <u>CP</u>s.

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 Sample, an initial <u>Aliquot</u> containing enough Sample 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 Sample 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 Samples once, using one <u>Aliquot</u>, during the <u>ITP</u> and the <u>CP</u>s ("A" and "B" Samples). Other tests that may assist in the evaluation of adulteration or manipulation may be performed if deemed necessary by the <u>Laboratory</u> (refer to the *TD* EAAS).
- d) Urine "A" *Samples* should be frozen after <u>Aliquots</u> are taken for the <u>ITP</u>s to minimize the risk of *Sample* microbial degradation.
- e) Urine "B" *Samples* shall be stored frozen, as soon as possible, after reception until analysis, if applicable.

5.3.3.2 (Venous) Blood Samples

- a) The <u>Laboratory</u> shall follow the applicable *TD*s, *TL*s or <u>LGs</u> for handling and storing blood *Samples*.
- b) For blood Samples, the <u>Laboratory</u> shall obtain <u>Aliquot(s)</u> from the blood Sample container by using single-use disposable pipettes or pipettes with disposable, non-reusable tips.
 - i. Samples for which <u>Analytical Testing</u> will be performed on blood serum/plasma fraction only (not on cellular components).
 - Blood Samples ("A" and "B" Samples), for which <u>Analytical</u> <u>Testing</u> will be performed on the plasma/serum fraction only shall be centrifuged, as soon as practical, after <u>Laboratory</u> reception to obtain the serum or plasma fraction ⁵;
 - 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 TD, TL or LGs) or frozen until analysis;
 - "A" Sample serum or plasma <u>Aliquots</u> used for "A" <u>CP</u>s shall be analyzed as soon as possible, but no later than twenty-four (24) hours after thawing;
 - 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 lysed upon thawing) until analysis, if applicable ⁵;
 - 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 freezing at -70 °C or less;

⁵ Unless otherwise specified in a *TD*, *TL* or <u>LGs</u>.

- "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.
- ii. Samples for which <u>Analytical Testing</u> will be performed on the cellular fraction of whole blood.
 - Whole blood Samples shall be maintained refrigerated and shall be analyzed according to established protocols;
 - After <u>Aliquots</u> have been taken for analysis, <u>Samples</u> shall be returned to refrigerated storage. Whole blood <u>Samples</u> shall not be frozen;
 - If additional analyses (e.g., EPO) are to be performed on the plasma fraction of the whole blood Sample, the Sample centrifugation and additional analysis shall await the completion of the analyses [including the <u>ITPs</u>, and any applicable "A" and/or "B" <u>CPs</u>] on the cellular components of whole blood. Then, the plasma fraction of the Sample shall be obtained and processed as described above.

5.3.3.3 Dried Blood Spot (DBS) Samples

DBS *Sample* storage and aliquoting shall follow the directives from the *TD* DBS ^[2], or other applicable *TD*, *TL* or <u>LGs</u>.

5.3.4 Analysis of Samples

5.3.4.1 Selection and Validation of Analytical Testing Procedures

- a) The Laboratory shall use <u>Analytical Testing Procedures</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) Validation results for <u>Analytical Testing Procedures</u> shall be summarized in a Validation Report and supported by the necessary documentation and Analytical Data.

For more details on <u>Analytical *Testing* Procedure</u> validation requirements, refer to the *TD* VAL.

5.3.4.2 Sample Analysis

- a) The Laboratories shall employ only validated, <u>Fit-for-Purpose</u> <u>Analytical Testing Procedures</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 IC or 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 5.3.4.2 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 Anti-Doping Organization 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*), if applicable.
 - iii. Non-prohibited substances or methods (including substances prohibited *IC* only and analyzed in *Samples* collected *OOC*) if requested as part of a *Results Management* process by the <u>RMA</u>, 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.
- d) At minimum, the <u>Laboratory</u> is required to implement all mandatory <u>Analytical Testing Procedures</u>, as determined by WADA in specific TDs, TLs or <u>LGs</u>. The <u>Laboratory</u> may implement additional methods for the analysis of particular Prohibited Substances or Prohibited Methods.

[Comment to Article 5.3.4.2 d): Mandatory <u>Analytical Testing Procedures</u> are those <u>Analytical Methods</u> for which the <u>Laboratory</u> shall have available analytical capacity, in compliance with relevant TDs, TLs or <u>LGs</u>, 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>Analytical Testing Procedure</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 chain of custody. WADA will maintain the list of mandatory <u>Analytical Testing Procedures</u> for reference by the <u>Laboratories</u> and ADOs.]

e) <u>Analytical Testing Procedure(s)</u> included in the Laboratory's Scope of ISO/IEC 17025 Accreditation (or ISO 15189, as applicable for <u>ABP</u> <u>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>Analytical Testing Procedure</u> has not been included yet in the Laboratory's Scope of ISO/IEC 17025 Accreditation, the <u>Laboratory</u> shall validate the procedure in compliance with the ISL and the applicable *TD*s, *TL*s or <u>LGs</u> 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 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>Analytical Testing Procedures</u> to analyze Samples for Prohibited Substances or Prohibited Methods not included in the requested IC or OOC Testing 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 Sample, as identified by the <u>TA</u> or WADA, to <u>Further Analysis</u>. Results from any such analysis shall be reported in ADAMS and have the same validity and Consequences as any other analytical result.

5.3.4.2.1 Application of <u>Initial Testing Procedures (ITPs)</u>

- a) The objective of the <u>ITP</u> is to obtain information about the potential presence of *Prohibited Substance(s)* or its *Metabolite(s)* or *Marker(s)*, or of *Marker(s)* of the Use of a *Prohibited Method*.
- Results from <u>ITP</u>s can be included as part of longitudinal studies (e.g., endogenous steroid, endocrine or hematological profiles), provided that the method is <u>Fitfor-Purpose</u>.
- c) The <u>ITP</u>s shall fulfil the following requirements:
 - i. Performed on <u>Aliquot(s)</u> taken from the container identified as the "A" Sample.

[Comment to Article 5.3.4.2.1 c): In cases when the "A" Sample cannot be used for the <u>ITP</u>s, the <u>ITP</u>s 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 quality controls (QCs) prepared in the matrix of analysis, in accordance with its method validation results (see *TD* VAL) ⁶.
- iv. The <u>Laboratory</u> shall establish criteria, based on its method validation results, to evaluate results from an

⁶ Unless otherwise specified in a *TD*, *TL*, or <u>LGs</u>.

<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>⁶.
- vi. Irregularities in the <u>ITP</u>s shall not invalidate an *AAF*, which is adequately established by a <u>CP</u>.

5.3.4.2.2 Application of Confirmation Procedures (CP)

- 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 *MRL* may also be performed if the result estimated from the <u>ITP</u> is lower than the applicable *MRL*, as determined by the <u>Laboratory</u> in accordance with the 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 method's validation results or as specifically required by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*⁷.
- d) The <u>CP(s)</u> shall fulfil 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> and, when applicable, shall provide accurate quantification results, including the estimation of the associated <u>MU</u>.
 - iii. Incorporate, when possible and adequate, a different Sample extraction protocol and/or a different analytical methodology⁷.
 - iv. Include appropriate negative and positive QCs prepared in the matrix of analysis, in accordance with its method validation results (see *TD* VAL) and applicable *TD*s, *TL*s or <u>LGs</u>.

⁷ Unless otherwise specified in a *TD*, *TL*, or <u>LGs</u>.

5.3.4.2.2.1 <u>CP</u> Methods

- a) Mass spectrometry (MS) coupled to chromatographic separation (e.g., gas or liquid chromatography) is the analytical technique of choice in anti-doping analysis. These are suitable methods for both the <u>ITP</u> and the <u>CP</u>.
- b) Affinity-binding assays (e.g., Immunoassays), electrophoretic and flow cytometric methods and other <u>Analytical</u> <u>Methods</u> are also routinely used for detection of macromolecules in Samples.
 - i. Affinity-binding assays applied for the <u>ITP</u>s and <u>CP</u>s shall use affinity reagents (e.g., antibodies) recognizing different epitopes of the macromolecule analyzed, unless a <u>Fit-for-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.
 - 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>s and <u>CP</u>s must 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 5.3.4.2.2.1 b): 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 red blood cells (RBCs) using flow cytometry. The flow cytometer is set up to selectively recognize RBCs. The presence on the RBCs of more than one surface Marker (as determined by antibody labelling) as a criterion for an AAF may be used as an alternative to multiple antibodies to the same Marker.]

5.3.4.2.2.2 "A" CP

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*.
- 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.

[Comment to Article 5.3.4.2.2.2 a): 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).]

- b) Target Analyte(s)
 - i. If the presence of more than one (1) Prohibited Substance, Metabolite(s) or Marker(s) of a Prohibited Substance, or Marker(s) of the Use of Prohibited Method is detected by the <u>ITPs</u>, the <u>Laboratory</u> shall confirm as many of the <u>PAAF</u>s as reasonably possible.
 - ii. Such decision shall 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 TUE, as confirmed by the <u>TA</u> 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 analyses (although this shall not be the main criterion for selecting which <u>PAAF</u> to confirm).
- iii. The <u>TA</u> (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>PAAF</u>s 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 *TUE*
 - i. The <u>Laboratory</u> may contact the <u>TA</u> (or <u>RMA</u>, if different), in writing, to enquire whether an approved *TUE* exists (for further guidance, refer to the <u>LGs</u> on *TUE* enquiries) when there is a <u>PAAF</u> for:
 - hCG;
 - hGH (Biomarkers Test);
 - Beta-2 Agonists;
 - Diuretics;
 - Amfetamine;
 - Methylphenidate;
 - Glucocorticoids; or
 - Beta-blockers.

[Comment 1 to Article 5.3.4.2.2.2 c): The selection of substances for TUE enquiries above is based on criteria such as prevalence of medical use 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 TUE 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> would have to assume the additional costs for the shipment of the Sample to the subcontracted <u>Laboratory</u>.]

[Comment 2 to Article 5.3.4.2.2.2 b): In principle, the enquiry by <u>Laboratories</u> regarding the existence of an approved TUE 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 TUE for the Use of a prohibited route of administration or a supratherapeutic inhalation dose.]

- ii. When possible, the <u>Laboratory</u> should provide an estimated concentration of the <u>Analyte(s)</u> from the <u>ITP</u>.
- 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 *TUE*, shall be provided to the <u>Laboratory</u> in writing (for further guidance, refer to the <u>Laboratory</u> <u>Guidelines</u> on *TUE* 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 confirmation, then the <u>TA</u> (or <u>RMA</u>, if different) shall provide *WADA* with a copy of the approved *TUE* or the associated *TUE* number if the *TUE* has been submitted into *ADAMS*.
- d) Repetition of the "A" CP
 - i. The <u>Laboratory</u> may repeat the <u>CP</u> for an "A" <u>Sample</u>, if appropriate, (*e.g.*, QC failure, chromatographic peak interferences, inconclusive results). The

⊟ wada

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 <u>LDOC</u>.

- ii. In that case, the previous test result(s) shall be nullified.
- iii. Each repeat "A" <u>CP</u> shall be recorded and shall be performed using (a) new <u>Aliquot(s)</u> taken from the container of the Sample designated as "A" Sample, unless the <u>Laboratory</u> can justify and document valid reasons for using the remains of a previously prepared "A" Aliquot.

[Comment to Article 5.3.4.2.2.2 d): 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
 - i. For <u>Non-Threshold Substances</u> without *MRL*, *AAF* or *ATF* decisions for the "A" *Sample* shall be based on the identification of the <u>Non-Threshold</u> <u>Substance</u> or its characteristic *Metabolite(s)* or *Marker(s)*, as applicable, in compliance with the *TD* IDCR and/or other relevant *TD*, *TL* or <u>LGs</u>.
 - ii. For <u>Non-Threshold Substances</u> with *MRL* (as specified in the *TD* <u>MRPL</u>), the <u>Laboratory</u> shall report a "A" *Sample* as an *AAF* if the <u>Non-Threshold Substance</u> is identified in compliance with the *TD* IDCR, at an estimated concentration greater than the *MRL* and in compliance with the requirements of the *TD* <u>MRPL</u>.
 - The <u>Laboratory</u> may report a Sample containing a <u>Non-Threshold Substance</u> with an estimated concentration below the *MRL* as an *AAF* if the <u>Non-Threshold</u> <u>Substance</u> is identified in compliance with the *TD* IDCR and the *TD* <u>MRPL</u> and, in addition, there are other reasons for the reporting, for example:

- Indications of the Use of the Prohibited Substance (e.g., the Athlete declared it in the DCF);
- A justification to do so as provided by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA* (*e.g.*, if the analysis is part of an ongoing investigation).
- f) "A" <u>CP</u> for <u>Threshold Substances</u>
 - i. For <u>Threshold Substances</u>, *AAF* or *ATF* decisions for the "A" *Sample* shall be based on:
 - The confirmed identification (in accordance with the *TD* IDCR, applicable to <u>CP</u>s based on chromatography-mass spectrometry) of the <u>Threshold</u> Substance and/or its *Metabolite(s)* or *Marker(s)*; and
 - A quantitative determination in the Sample at a level exceeding the value of the applicable *DL*, which is specified in the *TD DL* or other applicable *TD*s (e.g., *TD* GH) or <u>LGs</u>.

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

For some exogenous <u>Threshold</u> <u>Substances</u>, which are identified as such in the *Prohibited List* and the *TD DL*, *AAF* decisions for the "A" *Sample* do not require a quantification procedure if detected in the presence of any *Prohibited Substance* classified under S5. "Diuretics and Masking Agents" of the *Prohibited List*. In such cases, the identification (in accordance with the *TD* IDCR) of the Threshold Substance and/or its

Metabolite(s) in the *Sample* is sufficient to conclude an *AAF*.

 For endogenous <u>Threshold</u> <u>Substances</u>, *Markers* of the "steroid profile", or any other *Prohibited* Substance that may be produced endogenously, *AAF* decisions for the "A" *Sample* may also be based on the application of any <u>Fit-for-Purpose CP</u> that establishes the exogenous origin of the *Prohibited Substance* or its *Metabolite(s)* or *Marker(s)* (e.g., GC/C/IRMS).

ATFs may result from non-conclusive determinations of the origin (endogenous vs. exogenous) of the *Prohibited Substance* or its *Metabolite*(s) or *Marker*(s).

- ii. Quantitative <u>CP</u>s for <u>Threshold</u> <u>Substances</u> shall be based on:
 - The determination of the mean of measured analytical values (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by WADA) of three "A" Sample (3) Aliquots⁸. If there is not enough Sample volume to analyze three (3) Aliquots, the maximum number of Aliquots that can be prepared should be analyzed.

5.3.4.2.2.3 "B" CP

a) Testing Laboratory

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>.

⁸ Unless otherwise specified in a *TD*, *TL*, or <u>LGs</u>.

⊟ wada

- b) Notification of "B" CP
 - i. The <u>Laboratory</u> shall only perform the "B" <u>CP</u> upon written request from the relevant <u>RMA</u>.
 - ii. The <u>RMA</u> should inform the <u>Laboratory</u>, in writing, within fifteen (15) days following the reporting of an "A" Sample AAF by the <u>Laboratory</u>, whether the "B" <u>CP</u> shall be conducted (based on the Athlete's request or when the Athlete does not request the "B" Sample analysis or expressly or implici<u>th</u> waives his/her right to the analysis of the "B" Sample, but the <u>RMA</u> decides that the "B" <u>CP</u> shall still be performed).
- c) Timing of "B" <u>CP</u>
 - i. It is recommended that, if requested by the <u>RMA</u>, the "B" <u>CP</u> is performed within one (1) month of reporting the *AAF* for the "A" *Sample*.
 - ii. The timing of the "B" <u>CP</u> 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 decision-making process in the given circumstances (e.g., and without limitation, during or in view of a <u>Major Event</u> requiring rapid completion of the Sample analysis).

The <u>RMA</u> or *WADA*, as applicable, shall instruct the <u>Laboratory</u> to proceed if:

- The Athlete declines to be present in person and/or through a representative, or does not indicate whether they request the "B" Sample analysis; or
- The Athlete will not attend (in person and/or through a representative) once a date and time for the analysis has been proposed; 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

- i. The <u>Laboratory</u>, in consultation with the <u>RMA</u> or *WADA*, as applicable, 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>
 - 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;
 - The Athlete and/or one (1) representative may also have reasonable opportunity to observe other steps of the "B" <u>CP</u>, as long as their presence in the <u>Laboratory</u> does not interfere with the <u>Laboratory</u>'s routine operations or <u>Laboratory</u>'s safety or security requirements.
 - ii. An <u>Independent Witness</u> (in the absence of the *Athlete* and/or representative(s)).
 - iii. A translator (if applicable).

- iv. A representative of the <u>RMA</u> (if requested by the <u>RMA</u>).
- v. A representative of the NOC and/or National Sport Federation and/or International Federation, as applicable, may also attend the "B" Sample opening procedure, upon request and with prior approval of the Laboratory Director.
- vi. The Laboratory Director may limit the number of individuals in Controlled Zones of the Laboratory based on safety or security considerations.
- f) Non-<u>Laboratory</u> *Person* conduct during the "B" <u>CP</u>
 - i. *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, if they are not following the 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 <u>RMA</u>.
 - 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</u> shall be performed using <u>Aliquot(s)</u> taken from the container defined as the "B" *Sample*.

[Comment to Article 5.3.4.2.2.3 g): In cases when the "B" Sample cannot be used for <u>Analytical</u> <u>Testing</u>, the unopened, sealed "A" Sample may be split (see Article 5.3.2.2). The "B" <u>CP</u>s, if needed,

⊟ wada

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 his/her representative(s) or the <u>Independent</u> <u>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* collection documentation.
 - lf 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 and shall inform the RMA immediately to obtain instructions. In such cases, the "B" CP may have to be re-scheduled.
 - 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" <u>CP</u>. In addition, the Laboratory shall inform the <u>RMA</u> immediately. The reason(s) for the refusal shall be documented and included as a

⊟ wada

comment in the Test Report in ADAMS.

- iv. The <u>Laboratory</u> shall ensure that the "B" Sample container is opened and <u>Aliquots</u> for the "B" <u>CP</u> are taken in the presence of the Athlete or his/her representative(s) or the <u>Independent Witness</u>.
- v. The <u>Laboratory</u> shall also ensure that, after opening and taking <u>Aliquots</u> for the "B" <u>CP</u>, the "B" <u>Sample</u> is properly resealed in the presence of the <u>Athlete</u> and/or his/her 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 Laboratory Director or representative and the Athlete and/or their representative(s) and/or the Independent Witness shall also sign another part of the Laboratory 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 <u>Independent Witness</u> refuse to sign this part of the <u>Laboratory</u> documentation, the reasons for the refusal shall be documented and included as a comment in the Test Report in *ADAMS*. In either case, the <u>Laboratory</u> shall continue with the "B" <u>CP</u>.
- h) Target <u>Analyte(s)</u>

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

i. The decision on the prioritization for the confirmation(s) shall be made to prioritize

the analysis of the *Prohibited Substance(s)* or *Prohibited Method(s)* that carry the longest potential period of *Ineligibility*.

- ii. The decision should be made in consultation with the <u>RMA</u> and documented in writing.
- i) Repetition of the "B" CP
 - i. The <u>Laboratory</u> may repeat the "B" <u>CP</u>, if appropriate (*e.g.*, quality control failure, chromatographic peak interferences, inconclusive "B" confirmation 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 <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" *Sample* 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 re-sealed B" <u>Sample</u> container. In such cases, the re-opening, aliquoting and resealing of the B" <u>Sample</u> 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 <u>Aliquot</u> used shall be documented.
- j) "B" <u>CP</u> with Negative Results
 - i. If the final "B" confirmation results are negative, the <u>Analytical Testing</u> result shall be considered a <u>Negative Finding</u>.
 - 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 causes of the

discrepancy between the "A" and "B" *Sample* results and should report its outcomes to the <u>RMA</u> and *WADA* within seven (7) days.

[Comment to Article 5.3.4.2.2.3 j): Target <u>Analytes</u> (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" <u>CP</u>s. This does not mean that the "B" confirmation results are negative, as long as the <u>Analyte(s)</u> targeted allows the unequivocal and conclusive identification of the Prohibited Substance or Prohibited Method in the "B" Sample.

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. This discrepancy between the "A" and "B" Sample results may occur, for example, in cases of substance degradation during "B" Sample storage.]

- k) "B" <u>CP</u> for <u>Non-Threshold Substances</u> and Exogenous <u>Threshold Substances</u>
 - i. For <u>Non-Threshold Substances</u> (including those with *MRL* as specified in the *TD* <u>MRPL</u>) and exogenous <u>Threshold</u> <u>Substances</u>, the "B" *Sample* results shall only confirm the presence of the *Prohibited Substance(s)* or its *Metabolite(s)* or *Marker(s)* identified in the "A" *Sample* (in compliance with the *TD* IDCR or other applicable *TD*, *TL* or <u>LGs</u>) for the *AAF* to be valid.
 - ii. Quantification or estimation of concentrations of such *Prohibited Substance*, or its *Metabolite(s)* or *Marker(s)* in the "B" *Sample* is not necessary.
- I) "B" <u>CP</u> for Endogenous <u>Threshold</u> <u>Substances</u>
 - i. For endogenous <u>Threshold Substances</u>, *AAF* decisions for the "B" *Sample* results shall be based on:
 - The confirmed identification (in accordance with the *TD* IDCR, applicable to <u>CP</u>s based on chromatography-mass spectrometry)

of the <u>Threshold Substance</u> or its *Metabolite(s)* or *Marker(s);* and

- A quantitative determination in the "B" Sample at a level exceeding the value of the relevant DL⁹ as specified in the TD DL or other applicable TDs or LGs.
- 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.
- . For endogenous Threshold Substances, Markers of the "steroid profile", or any other Prohibited Substance that may be produced endogenously, AAF decisions for the "B" Sample results may also be based on the application of any Fit-for-Purpose Analytical Testing Procedure that establishes the exogenous origin of the Prohibited Substance and/or its Metabolite(s) or Marker(s) (e.g., GC/C/IRMS). ATFs may result from non-conclusive determinations of the origin (endogenous vs. exogenous) of the Prohibited Substance or its Metabolite(s) or Marker(s).
- ii. Quantitative "B" <u>CP</u>s for endogenous <u>Threshold Substances</u> shall be based on:
 - The determination of the mean of measured analytical values (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by WADA) of three (3) "B" Sample Aliquots ¹⁰.
 - If there is not enough Sample volume to analyze three (3) <u>Aliquots</u>, the maximum number of <u>Aliquots</u> that can be prepared should be analyzed.

⁹ <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*.

¹⁰ Unless otherwise specified in a *TD*, *TL*, or <u>LGs</u>.

5.3.4.3 Further Analysis

<u>Further Analysis</u> of stored Samples shall, as a matter of principle, be aimed at detecting all the *Prohibited Substance(s)* or *Metabolite(s)* or *Marker(s)* of *Prohibited Substance(s)*, or *Marker(s)* of the Use of a *Prohibited Method* included in the *Prohibited List* in force at the time of the collection of the Sample(s).

- a) Selection of Samples and Laboratories for Further Analysis
 - i. Stored Samples may be selected for <u>Further Analysis</u> at the discretion of the <u>TA</u>.

WADA may also direct the <u>Further Analysis</u> of *Samples* at its own expense (see *Code* Articles 6.5 and 6.6). In cases where *WADA* takes physical possession of a *Sample(s)*, it shall notify the <u>TA</u> (see *Code* Article 6.8).

- ii. The choice of which <u>Laboratory</u> will conduct the <u>Further Analysis</u> will be made by the <u>TA</u> or *WADA*, as applicable. Requests to the <u>Laboratory</u> for <u>Further Analysis</u> shall be made in writing and be recorded as part of the *Sample*'s documentation.
- iii. There is no limitation on the <u>TA</u> or *WADA* (or others authorized by either of them) to conduct <u>Further Analysis</u> on a *Sample* that has been reported as a <u>Negative Finding</u> or *ATF*.
- iv. The <u>Laboratory</u> may perform <u>Further Analysis</u> on a stored Sample reported as an AAF if the report did not result in an anti-doping rule violation charge under Code Article 2.1. Any Prohibited Substance or Prohibited Method detected, which was prohibited at the time of Sample collection, shall be reported.

[Comment to Article 5.3.4.3 a): Pursuant to Code Article 6.5, <u>Further Analysis</u> may not be applied on a Sample 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).

- v. Previously acquired <u>ITP</u> data may also be re-evaluated for the presence of *Prohibited Substances* or their *Metabolite(s)* or *Marker(s)* of *Prohibited Substances* or *Prohibited Methods*, at the initiative of the <u>TA</u>, the <u>RMA</u>, *WADA* or the <u>Laboratory</u> at its own discretion. The results of such re-evaluation, if suspicious, shall be communicated to the <u>TA</u>, the <u>RMA</u> or *WADA*, as applicable, and may lead to <u>Further Analysis</u>.
- b) Analytical Testing Procedures for Further Analysis of Stored Samples
 - i. <u>Further Analysis</u> of stored *Samples* shall be performed in compliance with the ISL, *TD*s, *TL*s and <u>LGs</u> in effect at the time the <u>Further Analysis</u> is performed.

- ii. <u>Further Analysis</u> of stored Samples includes, notably, but without limitation, the application of newly developed or improved <u>Analytical</u> <u>Testing Procedures</u> and/or the analysis of new target <u>Analytes</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 <u>Analytical Testing</u> of the Sample.
- 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>Analytical Testing Procedures</u>).
- c) Further Analysis of Stored Samples Process
 - i. Use of the "A" Sample
 - The <u>TA</u> or WADA may instruct the <u>Laboratory</u> to use the "A" Sample for:
 - Both the <u>ITP</u>s and the "A" <u>CP</u>s; or
 - Only for the <u>ITP</u>s; 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</u>s 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>Analytical Testing Procedure</u> applied, and shall be confirmed using the split "B" Sample (see below).
 - When a <u>CP</u> is performed on the "A" Sample and an AAF is reported on this basis, the "B" <u>CP</u> shall be applicable (as per Article 5.3.4.2.2.3).
 - ii. Use of the split "B" Sample
 - When the "A" Sample is used only for the <u>ITP</u>s or is not used at all during <u>Further Analysis</u>, the "B" Sample shall be split and used for 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 should 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 his/her representative has no right to attend the <u>Analytical</u> <u>Testing Procedures</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 5.3.4.2.2.3.

[Comment to Article 5.3.4.3: 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</u>s and "A" <u>CP</u>s or "A" <u>CP</u>s only (if the <u>ITP</u>s was/were already performed using the "A" Sample).]

5.3.4.4 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 control schemes, which are appropriate to the type and frequency of <u>Analytical Testing</u> performed by the Laboratory.
 - i. The QC schemes shall be recorded in such a way that trends are detectable and, where practicable, statistical techniques shall be applied to review the results.
 - ii. All quality control procedures shall be documented in the Laboratory Management System.
- b) The range of quality control activities include, but are not limited to:
 - i. Use and monitoring of appropriate QC samples.
 - Appropriate positive and negative QCs, prepared in the matrix of analysis, shall be included, and analyzed in every <u>ITP</u>s and <u>CP</u>s¹¹.
 - Appropriate internal standard(s) shall be used for chromatographic methods.
 - QC-charts with appropriate warning and action limits shall be regularly used to monitor method performance and inter-batch variability (when applicable) for quantitative determinations (e.g., <u>CPs</u> for <u>Threshold</u> <u>Substances</u>, steroid profile and *ABP* Endocrine Module *Marker* measurements, GC/C/IRMS analyses).
 - ii. Implementation of an Internal Quality Assurance Scheme (iQAS)
 - The <u>Laboratory</u> shall establish a functional and robust risk assessmentbased iQAS program, which challenges the entire scope of the <u>Analytical</u>

¹¹ Unless otherwise specified in a *TD*, *TL* or <u>LGs</u>.

<u>Testing</u> process (i.e., from Sample 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 test samples on a regular basis (e.g., monthly); and
 - Shall incorporate as many categories of *Prohibited Substances* and *Prohibited Methods* as possible.
- <u>The 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 TD EQAS).
- iv. Implementation of Internal Audits
 - Internal audits 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 internal audits, 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 Results Management

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 <u>example</u>, Experts from *WADA* Technical Working Groups) before reporting an *AAF* or *ATF*.

- i. Such requests for second opinions may be required by specific *TDs, TLs* or <u>LGs</u>, required by *WADA* from certain <u>Laboratory</u>(-ies) for all or for specific <u>Analytical Testing Procedures</u> 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. When the second provider is not a member of the relevant *WADA* Technical Working Group, they shall be at least a Certifying Scientist for the <u>Analytical Testing</u> Procedure and shall be approved to provide second opinions by the <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 respecting 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 ¹².

¹² Unless otherwise specified in a *TD*, *TL* or <u>LGs</u>.

d) <u>Laboratory</u> Review of 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. <u>LCOC</u> documentation.
- iii. <u>ITPs and CPs Analytical Data and calculations.</u>
- iv. QC data.
- v. Completeness of technical and analytical documentation supporting the reported findings.
- vi. Compliance of test data with the <u>Analytical Testing Procedure</u>'s validation results (e.g., <u>MU</u>).
- vii. 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): 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.]

viii. 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.

- a) 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>RM</u>s) used in the relevant steps of the Analytical *Testing* shall be recorded for traceability;
- c) Significant deviation from a written Management System procedure shall be recorded;
- 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>, <u>RMA</u> or *WADA* to a Laboratory shall be made in writing;
- f) <u>LDOC</u>s and <u>CoA</u>s shall be in compliance with the *TD* <u>LDOC</u>.

- i. 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 *TD* <u>LDOC</u>.
- ii. <u>Laboratories</u> are not required to produce an <u>LDOC</u> for a <u>Negative</u> <u>Finding</u>, unless requested by a hearing body or disciplinary panel as part of a *Results Management* process or <u>Laboratory</u> 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>, *WADA*, other parties informed including, where different, National Federations, International Federations, *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 emails 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 Sample for which the Athlete has been charged with a Code 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 Athlete or approval from a hearing body is obtained by the <u>TA</u> (or <u>RMA</u>, if different) – see also Article 5.3.4.3.
- b) Unless specifically requested to make a partial submission of test results by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*, a <u>Laboratory</u> shall 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*(*s*) 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, in addition, that 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 conducted 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 an atypical or suspicious steroid profile, EPO analysis for a suspicious haematological profile), which are triggered by *ADAMS* notifications or <u>APMU</u> requests after the "A" *Sample* has already been reported as an *AAF*, then the <u>Laboratory</u> shall advise the <u>TA</u> (or <u>RMA</u>, if different) that if the *Athlete* has been charged with a *Code* Article 2.1 anti-doping rule violation, the additional analyses cannot be performed until the case is finally resolved or consent from the *Athlete* or approval from a hearing body is obtained.
- c) Reporting Timelines
 - i. Reporting of "A" *Sample* results should occur in *ADAMS* within twenty (20) days of receipt of the *Sample*.
 - The reporting time required for specific occasions (e.g., in preparation for or during <u>Major Events</u>) may be substantially less than twenty (20) days, and this should be accorded with the responsible <u>TA(-ies)</u>. In such cases, Laboratories may have to prioritize the analysis of <u>Major Event</u> Samples over other Samples.
 - The <u>Laboratory</u> shall inform the <u>TA</u> in writing of any delay in the reporting of "A" *Sample* results, including the applicable reasons.
 - ii. The <u>LDOC</u>s and/or <u>CoA</u>s 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 <u>RMA</u> or *WADA*, respectively.

5.3.6.4.1 Reporting Requirements

a) The <u>Laboratory</u> shall record the test result for each individual *Sample* from *Signatories* or *WADA* 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 *TDs*, *TLs* or <u>LGs</u>, and in the ISO/IEC 17025 standard, the following:
 - i. The specific gravity (SG) of the *Sample* (<u>ITP</u> and "A" and "B" <u>CP</u>s).
 - ii. The name of the <u>RMA</u>, if provided.

iii. Relevant comments, if necessary, for proper interpretation of the test result or recommendations to the TA (for example, for *Target Testing* of the *Athlete*).

[Comment to Article 5.3.6.4.1 b): 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.]

- iv. Specific tests performed, in addition to the <u>Laboratory</u> routine <u>Analytical Testing</u> menu (e.g., ERAs, GC/C/IRMS, hGH, blood transfusions, DNA, genomic profiling, etc.).
- v. Any irregularities noted on Samples.
- vi. Any refusal by the *Athlete* and/or his/her representative(s) or the <u>Independent Witness</u>, as applicable, to sign the <u>Laboratory</u> documentation for the "B" *Sample* opening, aliquoting or re-sealing procedures (see Article 5.3.4.2.2.3).
- 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 *ADOs* shall access the Test Reports of their *Samples* in *ADAMS*.
- d) Upon request by WADA, the <u>Laboratory</u> shall report a summary of the results of analyses performed in a format specified by WADA. In addition, the <u>Laboratory</u> shall also provide any information requested by WADA in relation to the Monitoring Program (Code 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

[Comment 1 to Article 5.3.6.4.1 e): In cases when the <u>TA</u> confirms to the <u>Laboratory</u> the existence of an approved TUE for the Prohibited Substance, which is consistent with the <u>PAAF</u> results obtained in the <u>ITP</u> (see Art 5.3.4.2.2.2 c), the <u>Laboratory</u> shall report the result as a <u>Negative Finding</u> as instructed by the <u>TA</u>.]

iv. Not Analyzed

[Comment 2 to Article 5.3.6.4.1 e): Any Sample received at the <u>Laboratory</u> and not subject 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>Sample</u> <u>Collection Session</u>, etc. (see Article 5.3.2).]

5.3.6.4.1.1 Test Report for Non-Threshold Substances

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

[Comment to Article 5.3.6.4.1.1 a): When applicable, the Laboratory shall record in the ADAMS Test Report the specific Metabolite(s) or Marker(s) of the <u>Non-Threshold Substance</u> that were identified in the Sample.]

- The Laboratory is not required to report concentrations for Non-Threshold Substances that are not subject to an MRL. However, the Laboratory should provide estimated concentrations, when possible and upon request by the TA, RMA or WADA if the detected level of the Non-Threshold Substance(s), its *Metabolite(s)*, or *Marker(s)* may be relevant to the Results Management of an anti-doping case. In such instances, the Laboratory should indicate the estimated concentration while specifying that the concentration was estimated by an Analytical Testing Procedure that has not been validated for quantitative purposes.
- ii. Non-Threshold Substances subject to an MRL
 - The <u>Laboratory</u> shall report the *Prohibited* Substance when the relevant target <u>Analyte(s)</u> ¹³ identified in the "A" *Sample* (in accordance with the *TD* IDCR) are present at

¹³ The relevant target <u>Analytes</u> of a <u>Non-Threshold Substance</u> subject to an *MRL* are those <u>Analyte</u>(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 the *TD* <u>MRPL</u>).

an estimated concentration which is higher than the corresponding *MRL* (see *TD* <u>MRPL</u>);

- The <u>Laboratory</u> shall report the estimated concentrations for <u>Non-Threshold</u> <u>Substances</u> subject to an *MRL* upon request by the <u>TA</u>, <u>RMA</u> or *WADA*. However, the <u>Laboratory</u> shall specify that the concentration was estimated by an <u>Analytical</u> <u>Testing</u> Procedure that has not been validated for quantitative purposes.
- b) "B" Sample Test Report

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

5.3.6.4.1.2 Test Report for <u>Threshold Substances</u>

- a) "A" Sample Test Report
 - i. For <u>Threshold Substances</u>, the <u>Laboratory</u> Test Report for the "A" Sample shall establish that the identified *Prohibited Substance* or its *Metabolite(s)* or *Marker(s)* is present at a level of measured analytical values (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*) greater than the *DL* (see *TD DL*), and/or that the *Prohibited Substance* or its *Metabolite(s)* or *Marker(s)* is of exogenous origin.
 - ii. In the event that the <u>Threshold Substance</u>, identified as such in the *Prohibited List* and the *TD DL*, is detected in the presence of a diuretic or masking agent, the <u>Laboratory</u> shall establish the presence (i.e., the identity) of the *Prohibited Substance* and/or its *Metabolite(s)* and/or or its *Marker(s)* (in accordance with the *TD* IDCR or other applicable *TD*s, *TL*s or

<u>LGs</u>) and report it as an *AAF*, in addition to the reporting of the diuretic(s) or masking agent(s). In such cases, the <u>Laboratory</u> is not required to report the estimated concentration of the <u>Threshold Substance</u>.

- 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 *Prohibited Substance* or its *Metabolite(s)* or *Marker(s)* (in accordance with the *TD* IDCR or other applicable *TD*s, *TL*s or <u>LGs</u>). The <u>Laboratory</u> is not required to estimate/quantify nor report the concentration(s) of the <u>Threshold Substance</u>.

- ii. Endogenous <u>Threshold Substances</u>
 - The <u>Laboratory</u> Test Report for the "B" Sample shall establish that:
 - The identified (in accordance with the *TD* IDCR or other applicable *TD*s, *TL*s or <u>LGs</u>) *Prohibited Substance* or its *Metabolite(s)* or *Marker(s)* is present at a level of measured analytical values (e.g., concentration, ratio, score, or any other measurable analytical parameter, as defined by *WADA*), which is greater than the *DL*¹⁴, or
 - The Prohibited Substance or its Metabolite(s) or Marker(s) is of exogenous origin.
 - In the event that the <u>Threshold Substance</u>, identified as such in the *Prohibited List* and the *TD DL*, is detected in the presence of a diuretic or masking agent, the <u>Laboratory</u> shall establish the presence (i.e., the identity) of the *Prohibited Substance* and/or its *Metabolite(s)* and/or or its *Marker(s)* (in accordance with the *TD* IDCR or other applicable *TD*s, *TL*s or <u>LGs</u>) and report it as

¹⁴ 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*.

an *AAF*, in addition to the reporting of the diuretic(s) or masking agent(s). In such cases, the <u>Laboratory</u> is not required to estimate nor report the concentration of the <u>Threshold Substance</u> in the B" *Sample*.

5.3.7 Storage of Samples 15

- a) The <u>Laboratory</u> shall store *Samples* in a restricted and secure location under appropriate storage conditions and continuous chain of custody.
- b) The <u>Laboratory</u> 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 for the applicable minimum storage periods defined in Table 1 below after reporting all Sample results ("A" and "B", if 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).
- d) Samples shall be stored for longer than the minimum storage periods defined in Table 1 below if requested by the <u>TA</u> (or <u>RMA</u>, if different) or *WADA*.
- 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 <u>TA</u> (or <u>RMA</u>, if different) or *WADA*, as applicable

Sample Matrix		Storage conditions	Minimum Storage times ¹		
			<u>Negative</u> <u>Finding</u>	Not Analyzed	AAF / ATF ^{2,3}
Urine		Frozen (-15°C or less)	6 months	3 months	6 months
Venous Blood	Whole Blood	Refrigerated	1 month	1 month	3 months
	Plasma ⁵	 Frozen -15°C or less up to 3 months 	3 months	3 months	6 months
	Serum ⁵	 -70°C or less for more than 3 months 			
Capillary Blood	DBS ⁴	Frozen ● -15°C or less			

Table 1. Minimum Sample Storage Periods

¹ 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

¹⁵ This refers to "A" and "B" Samples and ABP Blood Samples stored in Sample collection containers (urine collection bottles, blood collection tubes, DBS devices) and should not be confused with access to <u>Aliquots</u>, which should be accessible to analysts for the performance of <u>Analytical Testing Procedures</u>. However, minimum and maximum retention times apply to any <u>Aliquot(s)</u> of a Sample that remains after completion of the <u>Analytical Testing</u>.



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 <u>Samples</u> will require the approval of the <u>TA</u> or WADA.

- ² 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" Sample(s) for the corresponding minimum storage time after reporting the "B" Sample analytical result.
- ³ Nevertheless, the <u>Laboratory</u> shall contact and inform the relevant <u>TA</u> and WADA before disposing of any Samples with AAF for which the <u>TA</u> (or <u>RMA</u>, if different) has not provided instructions regarding whether to perform the "B" <u>CP</u> (see Article 5.3.4.2.2.3).
- ⁴ If the <u>Analytical Testing</u> has been performed on the cellular fraction of a DBS Sample, then the minimum storage periods established for whole (venous) blood Samples shall be followed.
- ⁵ 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 freezing at -70 °C or less. After the "B" Samples is opened for <u>CP</u> aliquoting, the re-sealed "B" Sample shall be returned to storage at -70 °C or less.

5.3.7.1 Long-term Storage of Samples

At the direction of the <u>TA</u> 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) for up to ten (10) years after the *Sample* collection date for the purpose of <u>Further Analysis</u> (see Article 5.3.4.3).

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
 - i. The <u>Laboratory</u> shall ensure that *Samples* are stored according to established protocols in a secure location in the <u>Laboratory</u>'s permanent controlled zone and under continuous chain of custody.
 - ii. The written request from the <u>TA</u> 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 <u>Laboratory</u>'s ISO/IEC 17025 accreditation (or ISO 15189, as applicable for <u>ABP Laboratories</u>), 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> that first analyzed

the Sample(s), the Laboratory shall secure the "A" Sample(s) to be shipped either by re-sealing individual "A" Sample 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 chain of custody. Neither the Athlete nor his or her representative nor an Independent Witness is required to be present for this procedure;

[Comment to Article 5.3.7.1 a): For example, Sample(s) may be resealed with new resealing systems (e.g., new bottlecaps) 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 re-sealing 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 his/her representative or by an appointed Independent Witness;
- During transport and long-term storage, Sample(s) shall be stored at a temperature appropriate 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 *Metabolite(s)* of *Prohibited Substance(s)* or *Marker(s)* of *Prohibited Substance(s)* or *Prohibited Method(s)* (e.g., full-scan mass spectrometry data) as detailed in Article 5.3.4.3.
- v. If Sample(s) are transported to another <u>Laboratory</u> for long-term storage, the Sample's external chain of custody and other nonanalytical 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) <u>TA</u> as *Sample* Custodian

Sample(s) may also be transported for long-term storage to a <u>Fit-for-Purpose</u>, <u>secure</u> *Sample* storage facility, which is under the responsibility of the <u>TA</u> that has ownership over 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 <u>TA</u> shall ensure that Samples are stored according to established protocols in a secure location under continuous chain of custody;
 - The <u>TA</u>'s written request to the <u>Laboratory</u> for the transfer of the Sample(s) 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 Laboratory shall secure the Sample(s) 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 the *Sample's* external chain of custody and other non-analytical records to the <u>TA</u>, 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 <u>Aliquots</u>.

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), and neither the <u>TA</u> 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 Aliquots 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 *Person* (see *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:
 - i. 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 respect of 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 *Athlete* from *Samples* or <u>Aliquots</u> used for the purposes of this Article 5.3.8.2 or data arising from any research or *Quality Assurance* 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): 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 with WADA].

d) In the event the <u>Laboratory</u> wishes to transfer Sample(s) 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(s) or <u>Aliquots</u> or related data to another party.

5.3.9 Control of Nonconformities in <u>Analytical Testing</u>

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

- a) Any nonconformities in <u>Analytical Testing</u> shall be recorded and kept as part of the documentation of the Sample(s) involved.
- b) Risk Minimization:
 - i. <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>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.

5.3.10 Complaints

Complaints shall be handled in accordance with ISO/IEC 17025.

5.4 Management Requirements

5.4.1 Organization

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

5.4.2 Management Reviews

Management reviews shall be conducted to meet the requirements of ISO/IEC 17025.

5.4.3 Document Control

The control of documents that make up the Management System shall meet the requirements of ISO/IEC 17025.

- a) The Laboratory Director (or designee) shall approve the Management System documentation and all other documents used by Laboratory staff members involved in <u>Analytical Testing</u>.
- b) The Laboratory shall implement a procedure in its Management System to ensure that the contents of ISL, *TD*s, *TL*s and <u>LGs</u> are incorporated into the <u>Laboratory's</u> SOPs by the applicable effective date and that implementation is completed, recorded, and assessed for compliance.
 - i. If this is not possible, the Laboratory shall send a written request for an extension beyond the applicable effective date for consideration by *WADA*.

ii. Any failure by the Laboratory to implement mandatory requirements by the established effective date, without a prior approval by *WADA*, shall be considered a noncompliance and may affect the Laboratory accreditation or approval status.

5.4.4 Control and Storage of Technical Records

- a) The Laboratory shall keep a copy of all *Sample* records to the extent needed to produce <u>LDOC</u>s or <u>CoA</u>s, in accordance with the *TD* <u>LDOC</u>, in a secure storage until *Sample* 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 (e.g., hematological, and steroid profile Markers).

5.4.5 Cooperation with Customers and with WADA

Cooperation with customers shall be handled in accordance with ISO/IEC 17025 (or ISO 15189, for <u>ABP Laboratories</u>).

a) Ensuring Responsiveness to WADA

The Laboratory Director or his/her 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. Provide documentation to WADA (e.g., Management System documentation, SOPs, contracts (not including commercial or financial information) with Signatories, or with SCAs or DTPs working on behalf of Signatories) 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 TA and/or RMA
 - 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 <u>Analytical Testing</u> <u>Procedures</u>.
- c) Provide evidence and/or expert testimony on any test result or report produced by the <u>Laboratory</u> as required in administrative, arbitration, or legal proceedings.
 - i. The requests from such expert testimonies shall originate, in writing, from the <u>TA</u>, <u>RMA</u>, *WADA* or hearing bodies as part of the *Results Management* process.
 - ii. The <u>Laboratory</u> shall not provide expert testimony to *Athletes* or *Athletes*' representatives, including their legal counsels.
- 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 *ADOs*, including the introduction of an annual questionnaire to clients to assess their satisfaction (or otherwise) with the performance of the <u>Laboratory</u>.
 - 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 <u>Laboratory</u> and <u>ABP Laboratory</u> 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 *TD*s, *TL*s and <u>LGs</u>, as well as by monitoring their performance in the <u>EQAS</u> and during routine <u>Analytical Testing</u>.

6.1 WADA Laboratory and <u>ABP Laboratory</u> Monitoring

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

- a) The WADA EQAS Program.
- b) Laboratory and <u>ABP Laboratory</u> Assessments.
- c) Removal of Samples for analysis, Further Analysis or Quality Assessment purposes.

6.1.1 WADA EQAS

The WADA EQAS is designed to continually monitor the capabilities of the Laboratories and probationary laboratories, to evaluate their proficiency, and to improve test result uniformity between Laboratories. EQAS samples are used to assess Laboratory routine analytical capacity and performance, reporting turnaround times and overall compliance with WADA Laboratory normative standards (e.g., ISL, *TD*s, *TL*s and LGs), as well as other, non-analytical performance criteria. At the same time, the EQAS also represents, via its educational components, a source of continuous improvement for the effectiveness of Laboratory <u>Analytical Testing Procedures</u>. WADA is committed to conduct its EQAS to the highest standard and to ensure that it meets the goals and needs of its stakeholders, including the EQAS Participants, in accordance with the requirements of the ISO/IEC 17043 standard (Conformity Assessment - General Requirements for the Competence of Proficiency Testing Providers).

WADA regularly distributes through its subcontracted <u>EQAS</u> sample provider(s) urine or blood <u>EQAS</u> samples (including blind, double-blind and educational <u>EQAS</u> samples) to <u>Laboratories</u> and, when applicable, to probationary laboratories to continually monitor their capabilities, to evaluate their proficiency, and to improve test result uniformity between <u>Laboratories</u>. In addition, *WADA* distributes <u>EQAS</u> samples to <u>Candidate Laboratories</u> and <u>Probationary laboratories</u> as part of Pre-Probationary Tests (PPT) and Final Accreditation Tests (FAT), respectively (see Articles 4.1.2.6 and 4.1.3.10).

As part of its <u>Laboratory</u> monitoring activities, and with the main purpose of assisting <u>Laboratories</u> in their continuous improvement of performance, *WADA* may distribute additional <u>EQAS</u> Samples to <u>Laboratories</u> according, but not limited to, the following criteria (or other valid reasons, as determined by *WADA*):

- a) To monitor the effectiveness of corrective action implementation after questionable or unsatisfactory performance in WADA EQAS or in routine <u>Analytical Testing</u>.
- b) As part of WADA Laboratory assessments (see Article 6.1.2).
- c) During <u>Major Events</u> (see Article 4.3.1.2).
- d) When substantiated intelligence information is received by *WADA* indicating questionable or unsatisfactory <u>Laboratory</u> performance.
- e) To assess Laboratory competence in applying a specific <u>Analytical Testing</u> <u>Procedure</u>, which is not part of the <u>Laboratory</u>'s routine <u>Analytical Testing</u> menu, when there are an insufficient number of *Samples* received for analysis.

<u>Laboratories</u> and <u>ABP Laboratories</u> also participate in the <u>EQAS</u> for the ABP blood analysis on a regular basis (e.g., monthly). WADA subcontracts this ABP <u>EQAS</u> program to an ISO/IEC 17043-accredited external Proficiency Test Provider.

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

6.1.2 Laboratory and ABP Laboratory Assessments

WADA reserves the right to inspect and assess <u>Laboratories</u> or <u>ABP Laboratories</u> by conducting document audits and/or on-site and/or remote (on-line) assessments at any time. In addition, *WADA* performs assessments of <u>Candidate</u> <u>Laboratories</u> and <u>Probationary laboratories</u> as part of PPT and FAT, respectively (see Articles 4.1.2.6 and 4.1.3.10).

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

6.1.2.1 Types of Laboratory Assessments

WADA <u>Laboratory</u> and <u>ABP Laboratory</u> Assessments fall into one of the following two (2) categories:

a) Assessments Related to <u>Laboratory</u> Accreditation or *ABP* Approval Procedures

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

- i. PPT of Candidate Laboratories (see Article 4.1.2.6).
- ii. FAT of Probationary Laboratories (see Article 4.1.3.10).
- iii. <u>Laboratory</u> preparation for <u>Analytical Testing</u> during <u>Major Events</u> (see Article 4.3.1.1).
- iv. Imposition of an (provisional) <u>ATR</u> or (<u>Provisional</u>) <u>Suspension</u> of a <u>Laboratory</u> or (see Articles 7.1.1.3 and 7.2).
- v. <u>Suspension</u> of an <u>ABP Laboratory</u> (see Article 7.6).
- b) Assessments Related to *WADA*'s Regular <u>Laboratory</u> or <u>ABP</u> <u>Laboratory</u> Monitoring Activities

As part of *WADA*'s mandate to monitor <u>Laboratory</u> and <u>ABP</u> <u>Laboratory</u> performance, *WADA* has implemented a program of regular assessments of accredited and *ABP*-approved laboratories. 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 *TD*s, *TL*s and <u>LGs</u>.

Scheduling of <u>Laboratory</u> and <u>ABP Laboratory</u> assessments is done in consultation with the WADA <u>Lab EAG</u> 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):
 - <u>EQAS</u> and routine <u>Analytical Testing</u> performance;
 - Failure to implement mandatory analytical procedures, or issues with Laboratory operational environment (e.g., lack of independence, clients, low number of Samples analyzed, insufficient R&D activities);
 - Intelligence information received by WADA may also trigger a Laboratory assessment.
- WADA's objective is to perform an assessment of each <u>Laboratory</u> or <u>ABP Laboratory</u> within a reasonable time frame. However, a <u>Laboratory</u> or <u>ABP</u> Laboratory may be assessed more or less frequently in consideration of point i. above and as determined by WADA.

WADA shall inform the <u>Laboratories</u> about which <u>Laboratories</u> were assessed, and the reasons for the assessment, on an annual basis.

6.1.2.2 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.

- i. In addition to *WADA* representative(s), the Assessment Team will 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 <u>Laboratory</u> Directors or scientists from other <u>Laboratories</u>.
- iii. In addition, within the framework of the WADA-ILAC cooperation, WADA may invite representative(s) of the Accreditation Body, responsible for the <u>Laboratory</u>'s or <u>ABP Laboratory</u>'s ISO/IEC 17025 (or ISO 15189) accreditation, as observers during part(s) or the entire duration of the assessment.

WADA shall inform the <u>Laboratory</u> or <u>ABP Laboratory</u>, in advance, of the *WADA* Assessment Team composition, as well as the invited Accreditation Body *observers* (if applicable). Thereby, the <u>Laboratory</u> or <u>ABP Laboratory</u> will be provided the opportunity to lodge objection(s), if any, to the appointment of any Assessment Team member(s) or Accreditation Body 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.

b) Assessment Agenda

For an announced assessment, *WADA* shall also provide the <u>Laboratory</u> or <u>ABP Laboratory</u>, in advance, a draft Assessment Agenda, as well as requests to provide Laboratory or <u>ABP Laboratory</u> documentation (e.g., <u>Laboratory</u> 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>Analytical 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, including any identified nonconformities for the <u>Laboratory</u> or <u>ABP Laboratory</u> to implement the necessary improvements. Identified nonconformities shall be addressed by the <u>Laboratory</u> or <u>ABP Laboratory</u> 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 *TD* PERF.

6.1.3 Removal of Samples by WADA

- a) 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), WADA, initially at its expense, may remove Sample(s) from a <u>Laboratory</u> (see Code Article 6.8) to conduct <u>Further Analysis</u>, or analysis of the Sample (if the analytical results for that Sample have not yet been reported) for the purpose described in Code Article 6.2.

[Comment to Article 6.1.3a): 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 chain of custody 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).
- iv. In connection with its monitoring of <u>Laboratory</u> performance, *WADA* may direct <u>Further Analysis</u> of a *Sample* which has resulted in a *Code* Article 2.1 anti-doping rule violation charge before the case has been finally resolved and without consent of the *Athlete* or approval from a hearing body as established in *Code* Article 6.5, provided that the analytical result from that <u>Further Analysis</u> cannot be used against the *Athlete* (for example, re-analysis of *Samples* which a <u>Laboratory</u> has reported as *AAF*s when the <u>Laboratory</u> has been determined to have reported False *AAF*(s) using the same <u>Analytical Method</u>).
- b) Removal of Samples for Laboratory Quality Assessment

WADA may also direct the re-analysis of de-identified Samples, which have met the conditions described in Article 5.3.8.2, for purposes of <u>Laboratory</u> *Quality Assurance* 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 re-analysis may vary.

[Comment to Article 6.1.3b): A transfer of Samples between <u>Laboratories</u> shall apply only to Samples collected by Signatories.]

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>. 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 relevant International Federation, 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 <u>Major Event</u> (see Article 4.3.1.2).

6.2 Evaluation of Laboratory Nonconformities

The WADA system of <u>Laboratory</u> and <u>ABP Laboratory 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 *TD*s, *TL*s and <u>LGs</u>.

For full details on the *WADA* <u>Laboratory</u> 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 <u>Negative Findings</u>, and the *WADA* Penalty Point System, refer to the *TD* PERF.

7.0 <u>Laboratory</u> and <u>ABP Laboratory</u> Disciplinary Procedures

WADA shall regularly review the compliance of <u>Laboratories</u> with the mandatory requirements listed in the ISL and related *TD*s and *TL*s. In addition, *WADA* shall also conduct an annual review of <u>EQAS</u> results and of relevant routine <u>Analytical Testing</u> issues reported to *WADA* by stakeholders to assess the overall performance of each <u>Laboratory</u> and to decide its accreditation status.

Compliance with all the requirements established in Article 4.1.4.2, including satisfactory performance by a <u>Laboratory</u> 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 <u>Laboratory</u>'s *WADA* accreditation.

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 *TD*s and/or *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).

7.1.1 ATR or Suspension of WADA Accreditation

7.1.1.1 <u>Laboratory</u> Noncompliances Leading to <u>ATR</u> or <u>Suspension</u> of WADA Accreditation

Noncompliances with the ISL that may lead to an <u>ATR</u> or <u>Suspension</u> include, but are not limited to:

- 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 penalty 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 *TD* on <u>Laboratory</u> Performance Evaluation, *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 Negative Findings:

[Comment 1 to Article 7.1.1.1 f): <u>Lab EAG</u> recommendations are made in consideration of the number of false analytical findings reported by the <u>Laboratory</u>, irrespective of the total number of penalty points accumulated during this period (i.e., after consideration of any applicable penalty point deductions) or whether the <u>Laboratory</u> 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

- ii. 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 <u>Negative</u> <u>Findings</u> in the <u>EQAS</u> per twelve (12)-month period, or
- iv. The reporting of four (4) or more independent False <u>Negative 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</u> <u>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 a *TD* or *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 *TD*s and/or *TL*s.
- i) Serious and repeated noncompliances with results reporting timelines (see Article 5.3.6.4).
- 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 action for ISL and/or TD and/or TL noncompliance(s) identified from WADA Laboratory 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) Laboratory staff and/or management issues, including but not limited to:
 - i. 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*.
 - ii. Failure to appoint a <u>Laboratory</u> Director or other senior management positions (e.g., Quality Manager) within a reasonable timeline.
 - Failure to guarantee the competence and/or proper training of scientific staff including, for example, the qualification of analysts as Certifying Scientists (see Article 5.2.2.3).

- 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 *TD*s and/or *TL*s identified during *WADA* <u>Laboratory</u> assessments which demonstrates 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>ATR</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 *TD*s and/or *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 1 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 blood Samples for the <u>ABP</u> 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 will inform the <u>Laboratory</u> accordingly.]

7.1.1.3 Immediate Provisional Suspension or Immediate Provisional ATR

The <u>Lab EAG</u> shall make a recommendation to the Chair of the *WADA* Executive Committee that a <u>Laboratory</u> be subject to an immediate <u>Provisional Suspension</u> or immediate provisional <u>ATR</u> if a <u>Laboratory</u> has reported a False *AAF* with *Consequences* for an *Athlete*.

In such cases, the <u>Laboratory</u> shall immediately cease all affected analytical activities and inform its clients that it has been provisionally suspended or subjected to a provisional <u>ATR</u>. The <u>Laboratory</u> shall implement satisfactory corrective action(s) to resolve the nonconformity within a reasonable period (*i.e.*, within ten (10) days during routine <u>Analytical Testing</u>, or during <u>Major</u> <u>Events</u>, within forty-eight (48) hours of notification of the False AAF (see Article 7.7)).

- a) If the nonconformity is satisfactorily resolved within the established timeframe, WADA nevertheless reserves the right to send extra <u>EQAS</u> samples or perform an assessment of the <u>Laboratory</u> before lifting the <u>Provisional Suspension</u> or provisional <u>ATR</u>, at WADA's discretion, and will use best efforts to notify the <u>Laboratory</u> of such decision in an expedited manner.
- 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>Suspension</u> or <u>ATR</u> of the <u>Laboratory</u>, as applicable. The <u>Laboratory</u> shall remain subject to a <u>Provisional Suspension</u> or provisional <u>ATR</u> 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 <u>Laboratory</u> appeal.

In this instance:

a) No right of challenge to the DC

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 7.1.1.3.

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 <u>ATR</u> or a <u>Suspension</u>.

7.1.1.4 ATR and Suspension of Accreditation – No Disciplinary Proceedings

If a <u>Laboratory</u> has accumulated the maximum allowed number of penalty points for the <u>EQAS</u> and/or <u>Analytical Testing</u> (as per the Points Scale Table described in the *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>. In this instance,

a) No right of challenge to the DC

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>ATR</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 penalty points detailed in the Points Scale Table in the *TD* PERF, but where the <u>Laboratory</u>'s other <u>Analytical Testing</u> failure(s) and/or other identified nonconformities (as described in Article 7.1.1.1) otherwise justifies that such action be taken to ensure the full reliability and accuracy of <u>Analytical Testing</u> 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 ¹⁶:
 - i. Offer the <u>Laboratory</u> the opportunity to hold a session with the <u>Lab</u> <u>EAG</u> (upon request by the <u>Laboratory</u>) to discuss the <u>Laboratory</u>'s noncompliances on which the sanction recommendation is based.

¹⁶ These provisions do not apply in cases of immediate <u>Provisional Suspension</u> or immediate provisional <u>ATR</u> (see Article 7.1.1.3) or when the <u>Laboratory</u> has accumulated the maximum allowed number of penalty points for the <u>EQAS</u> and/or <u>Analytical Testing</u> (see Article 7.1.1.4).

- 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 and/or terms 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 reoccurrence 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 <u>ATR</u>.
 - 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 and/or terms for the <u>Suspension</u> or <u>ATR</u>, disciplinary proceedings will be initiated and conducted in accordance with Article 7.1.3.
- c) If the <u>Laboratory</u> does not accept the recommendation, the <u>Lab EAG</u>, based on the seriousness of the <u>Laboratory</u>'s <u>Analytical Testing</u> failures and/or other identified nonconformities, may issue a recommendation to the Chair of the WADA Executive Committee that the <u>Laboratory</u>:
 - i. Continue its <u>Analytical *Testing*</u> activities pending the outcome of the <u>Laboratory</u>'s challenge to the DC, or
 - ii. Be immediately subject to a <u>Provisional Suspension</u> or be subject to an immediate provisional <u>ATR</u> pending the outcome of the disciplinary proceedings. In such cases, a decision by the Chair of the *WADA* Executive Committee to impose a <u>Provisional Suspension</u> or a provisional <u>ATR</u> shall not be subject to appeal by the <u>Laboratory</u>.

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

d) Right of appeal to CAS:

In such circumstances, 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 7.1.1.5.

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 Laboratory's acceptance of the recommendation for an <u>ATR</u> or a <u>Suspension</u>.

e) 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.

7.1.2 <u>Revocation</u> 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 <u>Laboratory</u>.
- c) Repeated suspensions of ISO/IEC 17025 accreditation or <u>Suspensions</u> of WADA accreditation or repeated impositions of <u>ATR</u>s against the <u>Laboratory</u>.
- d) Repeated reporting of False AAFs with Consequences for Athletes.

[Comment 1 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 penalty 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 *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>.
- h) Failure to correct a noncompliance with any of the requirements or standards listed in the ISL and/or *TD*s and/or *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 *TD*s and/or *TL*s.
- j) Serious <u>Laboratory</u> noncompliance(s) with the ISL and/or *TD*s and/or *TL*s identified, for example, during *WADA* <u>Laboratory</u> assessments, by documented client complaints or through other enquiries or investigations conducted by *WADA*.
- Repeated failure to implement satisfactory corrective action(s) following unsatisfactory performance either in routine <u>Analytical Testing</u> or in a blind <u>EQAS</u> or double-blind <u>EQAS</u> round.
- Repeated failure to implement satisfactory corrective action(s) following ISL and/or *TD* and/or *TL* noncompliance(s) identified from *WADA* <u>Laboratory</u> assessment(s).
- m) Repeated failure to analyze the minimum number of *Samples* indicated in Article 4.1.4.2.8.
- n) 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).
- 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.
- p) Analysis of *Samples* from *Signatories* in violation of a <u>Suspension</u> or <u>ATR</u> decision.
- q) Repeated and/or continuous failure to cooperate in any WADA inquiry in relation to the activities of the <u>Laboratory</u>.
- r) Repeated failure to implement and document adequate R&D and Sharing of Knowledge activities.
- s) Continuous failure to establish/maintain administrative and operational independence (see Article 4.1.4.2.5), as determined by *WADA*.
- Loss of support which significantly affects the quality and/or viability of the <u>Laboratory</u>, and/or
- 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>ATR</u> or <u>Suspension</u>

- a) Prior to recommending the <u>Revocation</u> of a <u>Laboratory</u>'s WADA Accreditation to the WADA Executive Committee, WADA 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 noncompliances on which the <u>Revocation</u> recommendation would be based.

During this session, the <u>Laboratory</u> may provide further clarifications or evidence of successfully implemented corrective actions addressing the nonconformities to prevent their reoccurrence 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 either accept the <u>Lab EAG</u>'s recommendation and/or terms 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 WADA 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.
 - ii. 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 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 Suspension against the Laboratory shall not be subject to appeal by the Laboratory. However, should the Laboratory be immediately subject to a Provisional Suspension, the proceedings before the DC should be conducted within forty-five (45) days of the date when the Provisional Suspension of the Laboratory's WADA accreditation was imposed.

d) Right of challenge to the DC:

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 will 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</u> Procedures – <u>Laboratory</u> Under <u>ATR</u> or <u>Suspension</u>

- 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, *WADA* will 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>.
- b) *WADA* will notify the Executive Committee of the <u>Lab EAG</u>'s recommendation for <u>Revocation</u>.
- c) If the <u>Laboratory</u> does not accept the <u>Lab EAG</u>'s recommendation for <u>Revocation</u>, disciplinary proceedings will be conducted in accordance with Article 7.1.3.
- d) 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

In the event that a <u>Laboratory</u> challenges the <u>Lab EAG</u>'s recommendation for an <u>ATR</u> or <u>Suspension</u>, in accordance with Article 7.1.1.5, or recommendation for <u>Revocation</u>, in accordance with 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 Annex A). 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>Lab EAG</u>'s <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 (Annex A).

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

[Comment 1 to Article 7.1.3: For the avoidance of doubt, and as indicated in 7.1.1.3 and 7.1.1.4, disciplinary proceedings will not be conducted pursuant to this Article 7.1.3 in situations where the <u>Lab</u> <u>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 penalty 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 TD REF). 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 (Annex A), *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 <u>Suspension</u> or <u>Revocation</u> or the imposition of an <u>ATR</u>.
- b) The terms of the Suspension, Revocation, or ATR, 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 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 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 ATR

During a <u>Suspension</u> or <u>ATR</u> period, the <u>Laboratory</u> shall continue to participate in the *WADA* <u>EQAS</u> program. *WADA* 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 <u>ATR</u>

If WADA determines that the noncompliance(s) are limited to a class of *Prohibited* Substances or *Prohibited Methods* or to a specific <u>Analytical Testing Procedure</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 Substance(s)* or *Prohibited Method(s)* or for the specific <u>Analytical Testing Procedure</u> in which the noncompliance(s) occurred.

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

- a) Inform its clients of the imposed ATR.
- b) Immediately cease all analyses employing the affected <u>Analytical Testing</u> <u>Procedure(s)</u>.
- 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 ¹⁷ 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

¹⁷ 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 associated costs shall be borne by the <u>Laboratory</u> under <u>ATR</u>.

of the same class of *Prohibited Substances* or *Prohibited Methods* and/or the application of the <u>Analytical Testing Procedure</u>(s) subjected to the <u>ATR</u>) to a subcontracted <u>Laboratory</u>(-ies) for the performance of the "A" and, if needed, the "B" <u>CP</u>s (unless otherwise instructed by *WADA*). The <u>Laboratory</u> shall inform *WADA* of the relevant <u>TA</u>(-ies) and the subcontracted <u>Laboratory</u>(-ies).

- 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 PAAFs;
- 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 *Samples* reported as <u>Negative Finding(s)</u> and still stored in the <u>Laboratory</u> may have been impacted, the <u>Laboratory</u> shall inform the <u>TA</u> and *WADA*.

In such cases, both the "A" and "B" containers of the relevant *Samples* shall be transferred ¹⁷ 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>Analytical Testing</u> <u>Procedure(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 Samples for any Signatory. This provision does not apply when the noncompliance(s) that led to the <u>Suspension</u> does not impact the blood analyses for the *ABP*, as determined by *WADA*.

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

- a) Cease all Analytical Testing 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 <u>TA</u>(-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 <u>Samples</u> ("A" and "B") to a subcontracted <u>Laboratory</u>(-ies) for the

performance of the "A" (<u>ITP</u> and <u>CP</u>, if needed) and "B" analysis (if requested), unless otherwise instructed by *WADA* ¹⁸:

- 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 Laboratory but had not been opened.
- e) <u>Suspension</u> for Violation of the ISL Code of Ethics

The <u>Laboratory</u> shall transfer ¹⁸ all *Samples* (both the "A" and "B" *Samples*) in the <u>Laboratory</u>'s custody to another <u>Laboratory</u>(-ies) chosen by the <u>TA</u>(-ies).

f) <u>Suspension</u> for Reporting of False *AAF(s)*

The <u>Laboratory</u> shall transfer ¹⁸ 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 <u>ITP</u> analysis, or if the <u>ITP</u>s had been completed with negative results, but the results had not been reported, both the "A" and "B" Samples shall be transferred ¹⁸ to another <u>Laboratory</u>(-ies) to reconduct the <u>ITP</u>s and, if needed, to perform the <u>CP</u>s. These analyses may be applied for all the *Prohibited Substances* and *Prohibited Methods* included in the requested <u>Analytical Testing</u> menu or be limited to the class of *Prohibited Substances* and/or *Prohibited Methods* or to the <u>Analytical Testing</u> <u>Procedure(s)</u> that were associated with the <u>Negative Finding</u>, as determined by *WADA*.
 - ii. If the <u>Laboratory</u>'s investigation reveals that other Samples already reported as <u>Negative Finding</u>(s) may have been impacted (including Samples that have been placed in long-term storage upon request by the <u>TA</u> or WADA), the <u>Laboratory</u> shall inform the <u>TA</u> and WADA. In such cases, both the "A" and "B" containers of the relevant Samples shall be transferred ¹⁸ 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*

¹⁸ The suspended or revoked <u>Laboratory</u> shall contact the relevant <u>TA</u>(-ies) to arrange for the transfer of *Samples* to another <u>Laboratory</u>(-ies), chosen by the <u>TA</u>, within thirty (30) days of being notified of the <u>Suspension</u> or <u>Revocation</u> decision. Any additional costs of analysis to those previously agreed or already paid to the suspended or revoked <u>Laboratory</u> shall be borne by the <u>Laboratory</u> under <u>Suspension</u> or <u>Revocation</u>. In the case of ISL Code of Ethics violation(s), the suspended or revoked <u>Laboratory</u> shall also reimburse the <u>TA</u> for the costs of re-analyses in another <u>Laboratory</u>. The suspended or revoked <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). <u>TAs</u> should consider differences in analytical capacity between the suspended or revoked <u>Laboratory</u> and the receiving <u>Laboratory</u>(-ies) (e.g., <u>LOI</u> for <u>Non-Threshold Substances</u>, capacity to perform specific analyses). In such cases, the <u>TA</u> may consult the <u>Laboratories</u> implicated and/or *WADA* for guidance.

and/or *Prohibited Methods* or to the <u>Analytical Testing Procedure(s)</u> that were associated with the <u>Negative Finding(s)</u>, as determined by *WADA*.

h) <u>Suspension</u> for Other Reasons

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

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

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

ii. Samples, which had been reported as an AAF based on the "A" CP only:

Should a "B" <u>CP</u> be requested during the <u>Suspension</u>, both "A" and "B" *Samples* shall be transferred ¹⁸ to another <u>Laboratory</u>(-ies) for the "A" <u>CP</u> to be repeated and to perform the "B" <u>CP</u>, if applicable.

i) <u>Suspension</u> Related to Blood ABP Analysis

If the <u>Suspension</u> concerns the analysis of *ABP* blood *Samples*, *Samples* collected prior to the <u>Suspension</u> date may be analyzed by the <u>Laboratory</u>. The reporting of results for the relevant *Sample(s)* in *ADAMS* 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 *Results Management* process.

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

7.2.3 <u>Revocation</u> 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 ¹⁸ of the relevant Samples to a <u>Laboratory(-ies)</u>.
- c) A revoked laboratory shall arrange the transfer ¹⁸ of Samples in the laboratory's custody to a <u>Laboratory(-ies)</u> chosen by the <u>TA(-ies)</u> or WADA within thirty (30) days of being notified of the decision to revoke its WADA accreditation.
 - 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 <u>TA(-ies)</u> and the chosen <u>Laboratory(-ies)</u>.

- ii. In addition, the revoked laboratory shall assist the relevant <u>TA(-ies)</u> with the transfer of the relevant *Sample* data and records to the <u>Laboratory(-ies)</u> that have been selected to receive the *Samples* (see 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 <u>Laboratory</u>(-ies).

7.3 Extension of Suspension or Analytical Testing Restriction

- 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 TD and/or 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 Laboratory's Suspension or ATR 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. <u>Revocation</u> 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 WADA, 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 WADA.

If applicable, a delay in the delivery of the ISO/IEC 17025 accreditation to the <u>Laboratory</u> by the relevant Accreditation Body 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 WADA Executive Committee based on a recommendation from the <u>Lab EAG</u>. WADA will provide the <u>Laboratory</u> with the decision of the Chair of the WADA Executive Committee.
- d) The <u>Laboratory</u> may appeal *WADA*'s decision not to extend the <u>Suspension</u> or the <u>ATR</u> 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 Laboratory'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 Laboratory'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 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 WADA accreditation shall remain subject to the Suspension or <u>ATR</u>, as applicable, until the completion of the <u>Revocation</u> proceedings and pending the <u>Revocation</u> decision by the WADA Executive Committee. If the WADA Executive Committee confirms the <u>Revocation</u> of the <u>Laboratory</u>'s WADA accreditation, then the <u>Laboratory</u>'s WADA 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 Suspension or <u>ATR</u> beyond either the initial six (6)-month <u>Suspension</u> or <u>ATR</u> or beyond the end of the <u>Suspension</u> or <u>ATR</u> that has been extended to twelve (12) months, 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 Laboratory 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 Laboratory 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 clients of the decision to cease its operations and to arrange, in consultation with its clients, the transfer of *Samples* to another <u>Laboratory</u>(-ies).

- a) Temporary Closure of Laboratory Operations
 - i. If a <u>Laboratory</u> voluntarily ceases its anti-doping <u>Analytical Testing</u> operations on a temporary basis, the <u>Laboratory</u> shall:
 - Transfer Samples to another <u>Laboratory</u>(-ies) in accordance with Article 7.2.2;
 - 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 <u>Lab EAG</u>).
 - iii. 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.
- b) Permanent Closure of Laboratory 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</u>(-ies) with the transfer of relevant <u>Sample</u> data and records to another <u>Laboratory</u>(-ies) in accordance with Article 7.2.3.

7.5 Laboratory Reinstatement

7.5.1 Reinstatement of Suspended Accreditation or Lifting of ATR

WADA shall lift the <u>Suspension</u> of the <u>Laboratory</u>'s 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</u>'s 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.

7.5.2 Reaccreditation after <u>Revocation</u>

If a laboratory whose *WADA* accreditation has been revoked wishes to seek a new *WADA* accreditation, it must apply for *WADA* accreditation as a new laboratory 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 must be followed prior to granting an expedited re-accreditation process.



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

A laboratory's *WADA* approval for the *ABP* may be suspended or revoked whenever the <u>ABP Laboratory</u> fails to comply with the ISL and/or applicable *TD*s and/or *TL*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 *ABP* blood *Samples*, the <u>Analytical Testing</u> process for the *ABP* 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 7.1.1.5 and 7.1.2.2, 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 (Annex A).
- c) Due to the negative impact of time on the integrity of blood Samples for the ABP analysis, it is not normally feasible to send the ABP blood Samples to other <u>Laboratory</u>(-ies) or <u>ABP Laboratory</u>(-ies) for 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> of laboratory's WADA approval for the ABP only when the laboratory 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 laboratory's WADA approval for the ABP, 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* approval, it must apply for *WADA* approval for the *ABP* as a new 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>Analytical Testing Procedure(s)</u> (immediate provisional <u>ATR</u>).
- ii. Inform the MEO.
- 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 with the <u>Analytical Testing Procedure(s)</u> 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.

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 MEO.
- 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> with the <u>Analytical Testing Procedure(s)</u> for which the noncompliance occurred.
- iv. The corrective actions implemented, and the results of the re-analysis 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, will 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>. The procedure for the imposition of a <u>Suspension</u> or an <u>ATR</u> shall follow the provisions of Article 7.1.1.5 *mutatis mutandis*.

8.0 Code of Ethics for Laboratories and ABP Laboratories

8.1 Confidentiality

Directors of <u>Laboratories</u> and <u>ABP Laboratories</u>, their delegates and all <u>Laboratory</u> staff shall respect and comply with Article 5.3.6.3 and *Code* Article 14.3.6.

8.2 Research in Support of *Doping Control*

<u>Laboratories</u> shall participate in research programs, provided that the <u>Laboratory</u> Director is satisfied with their *bona fide* nature and the program(s) have 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 an 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>Laboratories</u> and <u>ABP Laboratories</u> shall follow the Helsinki Declaration and any applicable national standards as they relate to the involvement of human subjects in research. Voluntary informed consent shall also be obtained from human subjects in any drug administration studies for the purpose of development of 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*.

8.2.2 Controlled Substances

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

8.3 Analysis

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

[Comment to Article 8.3: The World Anti-Doping Program comprises the anti-doping programs of WADA and all Signatories, including International Federations, NADOs, RADOs, MEOs, the International Olympic Committee (IOC) or the International Paralympic Committee (IPC).]

8.3.1 Analytical Testing for ADOs

The <u>Laboratories</u> and <u>ABP Laboratories</u> shall accept <u>Samples</u> for <u>Analytical</u> <u>Testing</u> from ADOs only if all the following conditions have been met:

- a) The Sample matrix is of the proper type (e.g., blood, urine, DBS) for the requested analyses.
- b) The Samples have been collected, sealed, and transported to the <u>Laboratory</u> or <u>ABP Laboratory</u> in accordance with the *International Standard* for *Testing* (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 5.3.4.2.

8.3.2 <u>Analytical Testing</u> for non-Signatories

<u>Laboratories</u> and <u>ABP</u> <u>Laboratories</u> shall not accept <u>Samples</u> directly from individual <u>Athletes</u> or from individuals or organizations acting on their behalf.

<u>Laboratories</u> or <u>ABP Laboratories</u> may accept samples from non-Signatories for analysis; however, any such analysis shall not be conducted under the <u>Laboratory</u>'s WADA accreditation or under the <u>ABP Laboratory</u>'s WADA approval and test results shall not be reported in ADAMS. In addition, such analyses shall not negatively affect the <u>Analytical Testing</u> 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 testing is covered under the laboratory's WADA-accredited or -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 <u>diagnostic</u> 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 <u>Laboratory</u> or <u>ABP Laboratory</u> shall not provide analytical services in a *Doping Control* adjudication, unless specifically requested by the responsible <u>TA</u> or <u>RMA</u>, *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 *ADO* or a hearing body as part of a *Results Management* or adjudication process; or
- b) If done as part of a legitimate anti-doping research program, as determined by *WADA*; or
- c) If a request is made by an *Athlete*, the <u>Laboratory</u> may conduct the analysis if agreed by the *ADO*, which may also specify conditions that must be followed prior to or during the analysis (e.g., verification of original sealed packages, product batch number).

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 3.3 and 3.4 of Annex A will 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 -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* will inform all Laboratories.

The Laboratory 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 of 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> 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 <u>Laboratories</u> and <u>ABP Laboratories</u> 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 EQAS (see also TD EQAS).
- b) All employees of <u>Laboratories</u> and <u>ABP Laboratories</u> shall strictly respect the confidentiality of <u>Analytical Testing</u> results, as well as of all other <u>Laboratory</u> or <u>TA</u> information, including information provided by WADA under confidentiality.

- c) No employee or consultant of <u>Laboratories</u> and <u>ABP Laboratories</u> 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 <u>Laboratories</u> and <u>ABP Laboratories</u> 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 <u>Laboratories</u> and <u>ABP Laboratories</u> 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 <u>Laboratory</u> or <u>ABP Laboratory</u> is requested to provide evidence in anti-doping proceedings, they are expected to provide independent, scientifically valid expert testimony.
- g) The <u>Laboratory</u> or <u>ABP Laboratory</u> shall not issue any statements related to its analytical processes or findings, unless otherwise provided in *Code* Article 14.3.6. 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 <u>Laboratory</u> or <u>ABP Laboratory</u> being subject to Disciplinary Proceedings instituted by WADA to either suspend or revoke its WADA accreditation or its WADA approval, as applicable, in accordance with ISL 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 <u>Laboratory</u> or <u>ABP Laboratory</u> being subject to disciplinary action by the <u>Laboratory</u> or <u>ABP Laboratory</u>, respectively, 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 ANNEX

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 Article 7.1.2.2 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 must 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* will 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 time frame, the disciplinary proceedings will continue based on the evidence at the disposal of the DC.

Article A-4

Unless both parties agree or the Chairperson, at his/her 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 Annex C Article 3 above. Any determination made by the Chairperson pursuant to this article 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 in order for it to make its recommendation to maintain, suspend or revoke a <u>Laboratory</u>'s WADA accreditation or to impose an <u>ATR</u>.



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 *TD*s or *TL*s, or any other rules or law agreed to by *WADA* and the <u>Laboratory</u>, 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 ¹⁹, 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 the communication to the parties that no hearing will 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 *TDs* and/or *TLs* and the need to ensure accurate and reliable <u>Analytical Testing</u> 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 <u>ATR</u> for a period of up to six (6) months. During this time, any ISL and/or *TD* and/or *TL* noncompliance(s) identified within the context of the disciplinary proceedings instituted against the Laboratory and resulting in the <u>Suspension</u> of its WADA accreditation or the imposition of an <u>ATR</u>, or during a subsequent assessment conducted by WADA during the <u>Laboratory</u>'s <u>Suspension</u> or during the period of the <u>ATR</u>, shall be corrected, documented, reported to WADA and determined to be satisfactory by WADA. The DC shall also indicate any conditions that the <u>Laboratory</u> shall satisfy prior to or after reinstatement of the <u>Laboratory</u>'s WADA accreditation.

In cases where it considers 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.

¹⁹ 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 <u>Laboratory</u>, 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 must 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 WADA accreditation must be made shortly prior to the commencement of a <u>Major Event</u> or Event or if 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 *TD*s and/or *TL*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.