



# TD2021APMUTD2023APMU

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Written by:	WADA	Approved by:	WADA Executive Committee
Date:	November <del>2020</del> 2022	Effective Datedate:	<del>01 April 2021</del> 1 January 2023

#### Athlete Passport Management Unit

# Requirements and Procedures ATHLETE PASSPORT MANAGEMENT UNIT REQUIREMENTS AND PROCEDURES

#### 1.0 Introduction

This *Technical Document (TD)* has been established to harmonize effective management of *Athlete* <u>Passports</u> by providing specific requirements that an <u>Athlete Passport Management Unit (APMU)</u> shall meet in order to be a <u>WADA</u>-approved <u>APMU</u>.

#### 2.0 APMU Roles and Responsibilities

Dopi		and Management System (ADAMS) or	imely management of <u>Passports</u> in the <i>Anti-</i> n behalf of the <u>Passport Custodian</u> . <u>Passport</u>
	<del>a)</del> •		Performing Passport assessments to
	•	arget Testing recommendations to the <u>lappropriate;</u> and	Passport Custodian via the APMU Report in
	<del>b)</del> •		Managing the review of atypical Passports
	but not limited t	nnex C of the <i>International Standard</i> fo to, the following: updating <u>APMU Reports</u> in <i>ADAMS</i> ,	or Results Management (ISRM) [1], including,
	<del></del>	n <i>Atypical Passport Finding</i> ( <i>ATPF)</i> , or nd liaising with the <u>Expert</u> panel as req	

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- Compiling all necessary information to establish an <u>Athlete Biological Passport (ABP)</u>
   <u>Documentation Package</u>, and
- Declaring Adverse Passport Findings (APFs) to the Passport Custodian and WADA.
- 2.2 The <u>APMU</u> shall assess and manage <u>Passport</u> Sample validity in *ADAMS*, in consultation with the <u>Experts</u> or Laboratories when necessary, per Article 8.2 of this *TD*.
- 2.3 The <u>APMU</u> shall provide support to the <u>Passport Custodian</u> in defining priorities in order to optimize the efficiency of their *ABP* program. These priorities may include, but are not limited to, cost efficiency, special analyses, <u>Test Distribution Plans</u> (<u>TDP</u>), and <u>Target Testing</u>.

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#### 3.0 <u>APMU</u> Hosting

- 3.1 An APMU shall be hosted by a Laboratory.
- [Comment: Hosting in this context is defined as the provision of facilities and resources for the efficient functioning of the <u>APMU</u>.]
- 3.2 <u>APMU</u> hosting by a <u>Laboratory</u> does not preclude the use of qualified <u>APMU</u> managers employed by *ADOs* or other <u>Laboratories</u>.
- 3.3 <u>Passport</u> management shall be carried out in *ADAMS* using dedicated <u>APMU</u> accounts associated with the host <u>Laboratory</u> regardless of the physical location of the <u>APMU</u> manager(s).
- 3.4 The host <u>Laboratory</u> shall implement procedures to maintain the operational independence of the <u>APMU</u>, including the appointment of dedicated personnel with a specified time commitment to the <u>APMU</u> and a separate allocation in the budget so that the <u>APMU</u> can continue to function should the *WADA* accreditation of the <u>Laboratory</u> be suspended (see Article 7.1.5 of this *TD*).

#### 4.0 APMU Personnel

- 4.1 The host <u>Laboratory</u> shall have a *Person* qualified to function as the designated head of the <u>APMU</u> by assuming professional, organizational, educational, and administrative responsibility of the <u>APMU</u>. The <u>APMU</u> Director is responsible for ensuring the <u>APMU</u> operates in compliance with this *TD* and applicable *International Standards*. In particular, the <u>APMU</u> Director assumes the responsibility of signing and delivering all *APFs* to the Passport Custodian and *WADA*.
  - [Comment: The head of the <u>APMU</u> is termed "Director" herein, however use of this title is not a requirement and can be adjusted according to the needs of the organization.]
  - 4.1.1 The <u>APMU</u> Director's qualifications shall ensure that <u>he or shethis individual</u> is competent and capable of leading the <u>APMU</u> operations, including:

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- A doctoral degree (or equivalent) in one of the natural sciences or medicine, or in the absence of a doctoral degree, a master's degree (or equivalent) with extensive and appropriate anti-doping science experience and training (*i.e.*, minimum of five (5) years);
- · Management experience;
- · Ability to oversee compliance with quality management practices; and
- Good command of at least one of WADA's two official languages, English and French.
  - It is acknowledged that the <u>APMU</u> Director plays an essential role in the <u>APMU</u> operations and that *WADA* <u>APMU</u> approval is delivered based upon appointment of a proper candidate. *WADA* reserves the right to review the credentials of such appointment in accordance with the above qualifications.
- 4.1.2 The <u>APMU</u> Director is responsible for maintaining documentation for each personnel employed by, or under contract to, the <u>APMU</u>. Such documentation shall contain copies of the curriculum vitae or qualification form, a job description, and records of initial and ongoing training related to anti-doping.
- 4.1.3 Any personnel changes to the position of <u>APMU</u> Director shall be communicated to *WADA* no later than one (1) month prior to the date the <u>APMU</u> Director is scheduled to vacate <u>his/herthe</u> position. A succession plan shall be submitted to *WADA*.
- 4.1.4 The <u>APMU</u> Director is notably responsible for monitoring the quality of <u>Passport</u> management and ensuring that other <u>APMU</u> personnel have the experience and training necessary to perform their duties.
- 4.2 The <u>APMU</u> shall use qualified scientific personnel to serve as <u>APMU</u> manager(s) to manage the <u>Passport</u> review process and <u>Sample</u> validity, and to provide <u>Target Testing</u> and <u>Analytical Testing</u> recommendations through <u>APMU Reports</u> in <u>ADAMS</u>. <u>APMU</u> manager(s) shall be employed by the host <u>Laboratory</u> or be under contract by an <u>ADO</u> or another <u>Laboratory</u>. The <u>APMU</u> should have at least one <u>APMU</u> manager per <u>Module module</u> of the <u>ABP, where one manager may supervise multiple modules based on their qualifications</u>.

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[Comment: The designation of "manager" is used herein, however use of this title is not a requirement and can be adjusted according to the needs of the organization. The <u>APMU</u> Director can also serve in the role of <u>APMU</u> manager as required. Where the <u>APMU</u> manager is employed by an ADO, it is assumed that this individual will have access to the identity and other privileged or confidential information about the Athlete, past Testing and/or Results Management and investigations history. This additional information shall not be shared by the <u>APMU</u> manager in the <u>APMU Report</u> but is recognized to be important to contribute to effective Target Testing.]

- 4.2.1 APMU manager(s) shall have qualifications in one or more <u>Modules modules</u> of the ABP. The qualifications are at minimum:
  - Bachelor's degree (or equivalent) in one of the natural or health sciences. Documented experience of three (3) years or more in anti-doping or similar scientific training is equivalent to a Bachelor's degree for this position; and
  - Adequate training in one or more <u>Modules modules</u> of the *ABP*, capacity to understand and evaluate analytical results and the physiological response to the *Use* of *Prohibited Substances* and *Prohibited Methods*, as well as criteria relevant for *Target Testing*.
- 4.2.2 Where the <u>APMU</u> manager has strong qualifications in <u>Laboratory</u> steroid analysis, steroid doping and metabolism and/or clinical endocrinology, and is not employed by the <u>Passport Custodian</u>, the <u>APMU</u> manager can act as a first Expert for the Steroidal Module of the *ABP*.
- 4.3 The <u>APMU</u> should have administrative personnel to coordinate with the <u>Passport Custodian</u> to compile the necessary documentation required for the <u>ABP Documentation Packages</u>, manage communication with various stakeholders and assist with the organization of <u>APMU</u>-related documentation.

#### 5.0 APMU Confidentiality and Security

- 5.1 All <u>APMU</u> related activities shall be carried out in accordance with the confidentiality requirements of the *Code* and *International Standards*.
- 5.2 While <u>APMU</u> activities are typically carried out using <u>Passport</u> data associated with a unique ID, and while <u>APMU</u> staff generally do not have access to data that would enable them to identify *Athletes* in *ADAMS*, <u>TD2021APMU</u> Page 5 of 25

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<u>APMUs</u> may access <u>Personal Information</u> where additional information is needed to assess a <u>Passport</u> (e.g., when assessing a <u>Passport</u> that has generated an *ATPF*). In such contexts, <u>Personal Information</u> shall only be processed for the purposes set out in this *TD*, and shall be handled by the <u>APMU</u> in accordance with the *International Standard* for the Protection of Privacy and Personal Information (ISPPPI) [2] and applicable laws.

- 5.3 Without limiting the above, the <u>APMU</u> shall adhere to those information retention times set forth in Annex A of the ISPPI. In consultation with the <u>Passport Custodian</u>, the <u>APMU</u> shall develop specific plans and procedures to ensure the secure retention and eventual destruction of Personal Information.
- 5.4 The <u>APMU</u> shall develop, maintain, implement and ensure ongoing compliance with a written information security program that includes physical, organizational, technical, environmental and operational safeguards appropriate to the sensitivity of the information in its custody or to which it has access. Such program shall be based on a threat and risk assessment by expert(s) in the relevant field, and shall ensure the confidentiality of its procedures and security of its information systems regardless of the physical location of the <u>APMU</u> personnel at the time of <u>Passport</u> management, such as when the <u>APMU</u> manager is physically located in an <u>ADO</u>, another <u>Laboratory</u> or when travelling.

#### 6.0 ABP Expert Panel

- 6.1 The <u>APMU</u> shall engage the services of qualified <u>Experts</u> for the review of <u>Passports</u> in accordance with Annex C of the ISRM [1].
- 6.2 The APMU should inform WADA about any changes in their pool of Experts.
- 6.26.3 The <u>APMU</u> shall establish, in consultation with the <u>Passport Custodian</u>, a list of <u>Experts</u> who are qualified to comprise an Expert panel for the review of Passports.

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- For the Haematological Module, the Expert panel should consist of at least three (3)
   Experts who have qualifications in one or more of the fields of clinical and laboratory haematology, sports medicine and exercise physiology, as they apply to blood doping;
- For the Steroidal Module, the <u>Expert</u> panel should be composed of at least three (3) individuals <u>Experts</u> with qualifications in the fields of <u>Laboratory</u> steroid analysis, steroid doping and metabolism, and/or clinical endocrinology; as it applies to steroid <u>Marker metabolism</u>.
- For the Endocrine Module, the Expert panel should be composed of at least three (3) Experts with qualifications in the fields of endocrine biomarker analysis, doping with growth hormone and related compounds, and/or clinical endocrinology, as it applies to growth hormone *Marker* metabolism.

For each module, an Expert panel should consist of Experts with complementary knowledge such that all relevant fields are represented.

- All three (3) <u>Experts</u> forming an <u>Expert</u> panel assigned to review a particular <u>Passport</u> shall not be of one and the same nationality and no two (2) <u>Experts</u> shall have a primary affiliation with the same organization, institution or company, including, but not limited to, universities, hospitals and research institutes.
- AtWhere applicable, at least one <u>Expert</u> on the <u>Expert</u> panel <u>shallshould</u> currently serve or have previously served as an <u>Expert</u> and reviewed <u>Passports</u> for a *WADA*-approved <u>APMU</u>.

#### 6.36.4 - The APMU shall ensure that each Expert:

- Has access to relevant ABP Expert education resources provided by WADA;
- Has an <u>Expert</u> account <u>created</u> in <u>ADAMS</u> by the <u>APMU</u> for the anonymous review of <u>Passports</u> assigned by the <u>APMU</u>;
- Is independent of the <u>Passport Custodian</u> and has no conflicts of interest in reviewing <u>Passports</u>, as documented in a conflict—of—interest declaration; and
- Has signed the WADA ABP <u>Expert</u> Code of Conduct <u>Declaration</u>.
- [Comment: An APMU manager may also concurrently serve as an <u>Expert</u> for other <u>APMUs</u>, provided all requirements of Article 6.0 of this TD are met.]

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#### 7.0 Process and Requirements for WADA APMU Approval

<u>Passports</u> shall only be managed by <u>APMUs</u> that have been approved by <u>WADA</u>.Applying for <u>WADA APMU</u> Approval

#### 7.1.1 Expression of Interest

The candidate <u>APMU</u> shall officially contact *WADA* in writing to express its interest in the *WADA* <u>APMU</u> approval process.

#### 7.1.2 Preliminary Discussion with WADA

The purpose of this discussion is to clarify issues with regard to the approval process and to obtain information about different aspects of the <u>APMU</u> relevant to the approval process. Such a discussion could be conducted prior to or during the approval process.

#### 7.1.3 Description of the Candidate APMU

The candidate <u>APMU</u> shall then complete a detailed application form provided by *WADA* and submit it to *WADA* no later than eight (8) weeks following receipt. The application form includes, but is not limited to, the following:

- List of staff, their qualifications and intended role within the <u>APMU</u>;
- Description of the <u>APMU</u> information security program (see Article 5.4 of this *TD*), including a
  description of the physical, organizational, technical, environmental and operational security
  measures implemented to protect records and computer systems;
- List of external <u>Experts</u>, their contact information, <u>and</u> their qualifications <u>and signed ABP Expert</u> <u>Code of Conduct Declaration</u>;
- Business Plan for the <u>APMU</u> and letters of support from *ADOs* that demonstrate a commitment to manage, according to Article 2.0 of this *TD*, a minimum of 100 haematological active hematological Passports and 500 active steroidal Passports from Signatories annually, within one year of receiving approval. An eligible Business Plan shall demonstrate a commitment to provide at least

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200 <u>APMU Reports</u> for <u>haematological hematological</u> <u>Passports</u> and 500 <u>APMU Reports</u> for steroidal <u>Passports</u> per year.

[Comment: A Passport is considered active when at least one Sample collection is planned during the first year of operation of the APMU. There is no minimum number of active endocrine Passports required for the business plan.]

#### 7.1.4 Liability Insurance Coverage

The <u>APMU</u> shall provide documentation to *WADA* that professional liability risk insurance coverage or equivalent has been obtained which covers the <u>APMU</u> to an amount of no less than (≥) 2 million USD annually, and should ensure that the <u>Expert</u> panel has suitable professional liability risk insurance or equivalent coverage.

#### 7.1.5 Operational Independence

The <u>APMU</u> shall ensure a degree of operational independence from the host <u>Laboratory</u> such that the <u>APMU</u> can continue to fulfil its responsibilities in compliance with this *TD* should the *WADA* accreditation of the <u>Laboratory</u> be suspended, where the reason for the <u>Suspension</u> does not have an impact on the function of the <u>APMU</u>. Operational independence implies that the <u>APMU</u> shall have a separate allocation in the budget and sufficient technical and human resources to permit the <u>APMU</u> to manage its own affairs without hindrance or interference by host <u>Laboratories</u>.

#### 7.1.6 Compliance with the WADA APMU Code of Ethics

The candidate <u>APMU</u> shall implement and comply with the provisions in the <u>WADA APMU</u> Code of Ethics. The <u>APMU</u> shall provide the <u>APMU</u> Code of Ethics to <u>APMU</u> personnel and ensure their understanding and compliance with all aspects. The candidate <u>APMU</u> shall provide to <u>WADA</u> a letter of compliance with the <u>APMU</u> Code of Ethics, signed by the <u>APMU</u> director.

#### 7.1.7 WADA Recommendation for Approval

After receipt of the application form, WADA will complete and submit a report to the candidate <u>APMU</u>. The report will include a recommendation concerning approval of the candidate <u>APMU</u>. In the case where the recommendation is that the <u>APMU</u> should not be approved, the report will identify improvements

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required in order to be re-considered for designation as a *WADA*-approved <u>APMU</u>. In the case where the recommendation is that the <u>APMU</u> should be approved, the report and recommendation will be submitted to the *WADA* Executive Committee for approval.

#### 7.1.8 Issuing Approval Letter and Publishing APMU List on WADA's Website

A letter signed by a duly authorized representative of WADA shall be issued in recognition of approval of an APMU. Such letter shall specify, specifying the name of the APMU and the period for which the approval is valid. Approval may be granted with retroactive effect. An updated list of approved APMUs shall be published by WADA on WADA's website.

#### 7.2 Maintaining WADA Approval

An <u>APMU</u> shall continue to function if the <u>Laboratory's</u> accreditation is suspended, provided that the <u>APMU</u> continues to meet other criteria for approval, and that any non-conformities related to the <u>Suspension</u> of the <u>Laboratory's</u> accreditation do not have an impact on the <u>APMU</u>. The <u>APMU</u>'s approval shall be revoked if the *WADA* accreditation of the associated Laboratory is revoked.

[Comment: <u>Suspension</u> or <u>Revocation</u> of <u>APMU</u> approval shall not be considered in decisions on <u>Suspension</u> or Revocation of <u>Laboratory</u> accreditation unless the <u>APMU</u> non-compliance has a clear impact on the function of the <u>Laboratory</u>.]

#### 7.2.1 Minimum Number of Passports and APMU Reports

In order to maintain proficiency, *WADA*-approved <u>APMUs</u> are required to review a minimum number of <u>Passports</u> and provide <u>APMU Reports</u> for <u>Passports</u> of <u>Signatory Passport Custodians</u>. *WADA* shall monitor the total number of <u>Passports</u> under the responsibility of the <u>APMU</u> and the number of <u>APMU Reports</u> issued by the <u>APMU</u>. If the annual number falls below 100 <u>haematological active hematological Passports</u>, 500 <u>active</u> steroidal <u>Passports</u>, 200 <u>haematological hematological APMU Reports</u> or 500 steroidal <u>APMU Reports</u>, *WADA* <u>APMU</u> approval may be suspended or revoked.

[Comment: For the purposes of WADA APMU monitoring, a Passport is considered active when at least one Sample is collected during the previous twelve months period at the time of the assessment. There is no minimum number of active endocrine Passports or APMU Reports required to maintain APMU approval.]

#### 7.2.2 Documenting Compliance with the WADA APMU Code of Ethics

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The <u>APMU</u> shall annually provide to *WADA* a letter of compliance with the provisions of the <u>APMU</u> Code of Ethics, signed by the <u>APMU</u> Director. All <u>APMU</u> personnel shall sign the *WADA* <u>APMU</u> Code of Ethics on a yearly basis and the signed documents shall be kept as part of their personnel file. The <u>APMU</u> may be asked to provide documentation demonstrating compliance with the provisions of the <u>APMU</u> Code of Ethics.

#### 7.2.3 Documenting Sharing of Knowledge

The <u>APMU</u> shall proactively share knowledge with other *WADA*-approved <u>APMUs</u>. The <u>APMU</u> should participate at least once annually in a *WADA* Working Group or an anti-doping symposium or conference. The <u>APMU</u> shall supply an annual report on sharing of knowledge with *WADA*. A description of this sharing of knowledge is provided in the *WADA* APMU Code of Ethics.

#### 7.2.4 Maintaining Professional Liability Insurance Coverage

The <u>APMU</u> shall maintain an ongoing professional liability risk insurance coverage or equivalent which covers the <u>APMU</u> to an amount of no less than (≥) 2 million USD annually, and should ensure that the <u>Expert</u> panel has suitable professional liability risk insurance or equivalent coverage. Proof of the corresponding coverage shall be provided to *WADA* upon request.

#### 7.2.5 APMU Compliance Monitoring by WADA

WADA shall monitor the compliance of <u>APMUs</u> against the requirements listed in applicable *International Standards* and *TDs*. In addition, *WADA* shall also conduct at least an annual reviewperiodic audits of <u>APMU</u> compliance and any other relevant information received or collected by *WADA* to assess the overall performance of each <u>APMU</u> and to decide its approval status.

#### 7.2.6 APMU Assessment by WADA

WADA reserves the right to conduct document-based audits as well as inspect and assess the APMU through on-site or remote assessments at any time, at WADA's expense. The notice of an on-site

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assessment will be made in writing to the <u>APMU</u> Director. In exceptional circumstances, the on-site assessment may be unannounced.

#### 7.2.7 Suspension or Revocation of Approval

<u>Suspension</u> or <u>Revocation</u> of <u>APMU</u> approval may occur whenever the <u>APMU</u> fails to comply with applicable *International Standards* and/or *TDs*, or where such measure is otherwise required in order to protect the interests of the anti-doping community.

Without limitation, the following nonconformities in the routine operations of an <u>APMU</u> may be considered in support of <u>Suspension</u>:

- Failure to comply with any of the requirements listed in applicable International Standards and/or TDs;
- Failure to cooperate with WADA or the relevant <u>Testing Authority</u> in providing documentation;
- Noncompliance(s) with the <u>APMU</u> Code of Ethics;
- Major changes in key staff without proper and timely notification to WADA;
- Failure to cooperate in any WADA inquiry in relation to the activities of the APMU;
- Noncompliance(s) identified from APMU assessment(s); or
- Loss of resources jeopardizing the quality and/or viability of the APMU.

Noncompliance(s) in <u>APMU</u> performance will be assessed by *WADA* on a case-by-case basis considering the severity and consequences to the anti-doping system. Evidence of serious or multiple noncompliance(s) will be reported by *WADA* to an external assessment panel, who will make a recommendation to *WADA* regarding the approval status of the <u>APMU</u> and the required corrective actions and associated deadlines. *WADA* reserves the right to provisionally suspend an <u>APMU</u>'s approval pending a full investigation. Such a decision may be taken by the Chair of *WADA*'s Executive Committee.

The period and terms of <u>Suspension</u> shall be proportionate to the seriousness of the noncompliance(s) and the need to ensure reliable management of *Athlete* <u>Passports</u>. A period of <u>Suspension</u> shall be of a duration to be decided by *WADA* and up to a maximum of six (6) months, during which time any nonconformity(ies) must be corrected and such correction documented and reported to *WADA*. If the

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nonconformity(ies) is/are not corrected during the initial <u>Suspension</u> period, the <u>Suspension</u> shall either be further extended or the <u>APMU</u> approval revoked. The <u>Suspension</u> period may be extended up to a maximum of an additional six (6) months, based on justifiable delays in implementing the satisfactory corrective actions. If the <u>APMU</u> has provided evidence determined to be satisfactory by *WADA* that the noncompliance(s) are corrected, the <u>APMU</u>'s approval shall be re-instated. If the <u>APMU</u> has not provided evidence determined to be satisfactory by *WADA* at the end of the extended <u>Suspension</u> period, not to exceed twelve (12) months, the <u>APMU</u>'s approval shall be revoked.

During the period of <u>Suspension</u> of the <u>APMU</u>, the management of all <u>Athlete Passports</u> shall be transferred by the <u>Passport Custodian</u> to another <u>WADA</u>-approved <u>APMU</u>, <u>after signing an agreement</u> with this other APMU.

The *WADA* Executive Committee shall revoke the approval of any <u>APMU</u> if it determines that <u>Revocation</u> is necessary to ensure reliable management of *Athlete* <u>Passports</u>. <u>Revocation</u> may be based on, but not limited to, the following <u>nencompliances\_noncompliance(s)</u> in the routine operations of an <u>APMU</u>:

- Repeated suspensions of WADA APMU approval;
- Systematic failure to comply with applicable International Standards and/or TDs;
- Failure to correct a lack of compliance with any of the requirements listed in applicable *International Standards* and/or *TDs* during a <u>Suspension</u> period;
- A serious or repeated violation of the APMU Code of Ethics;
- Repeated and/or continuous failure to cooperate in any WADA inquiry in relation to the activities of the <u>APMU</u>;
- Serious noncompliance(s) identified from APMU assessment(s); or
- Loss of resources jeopardizing the quality and/or viability of the <u>APMU</u>.

#### 7.2.8 Appeals

*WADA*'s decision to suspend or revoke an <u>APMU</u>'s approval may be appealed in writing by the <u>APMU</u> before *CAS* within twenty-one (21) days of the date of receipt of notification.

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#### 8.0 Passport Management and Administration

The APMU shall manage all Passports under the custody of the Passport Custodian.

#### 8.1 Passport Review Process

The APMU shall carry out the Passport review process as described in Annex C of the ISRM [1].

- 8.1.1 When assessing a newly matched Sample in a Passport:
  - The <u>APMU</u> shall assess the validity of individual <u>Samples</u> contained within the <u>Passport</u> in <u>ADAMS</u> and address any observed irregularities according to Article 8.2 of this <u>TD</u> by updating the <u>APMU</u> Report;
  - The <u>APMU</u> shall review any new <u>Samples</u> within the updated <u>Passport</u> and provide <u>Target Testing</u>, <u>Sample</u> analysis or other recommendations via the <u>APMU Report</u> as required;
  - Where required for its analysis, the <u>APMU</u> may request further information from the <u>Passport Custodian</u> including, but not limited to, circumstances and details of <u>Sample</u> collection, transport, and analysis, redacted <u>Athlete Competition</u> schedule, travel history, <u>Athlete</u> performance, redacted <u>Athlete</u> medical information, information on an <u>Adverse Analytical Finding (AAF)</u> that is potentially relevant in the context of the <u>Passport</u>, or altitude/whereabouts information which may help them interpret the new <u>Sample</u>;
  - Where the <u>Passport</u> includes elements justifying a review or upon request by the <u>Passport</u> <u>Custodian</u>, the <u>APMU</u> shall send the <u>Passport</u> to review in <u>ADAMS</u> by an <u>Expert for review</u>.

[Comment: One of the benefits of the ABP is the ability to focus resources on atypical results requiring attention. As such, it is not mandatory for an <u>APMU</u> to review all newly matched Samples under their responsibility that do not generate a specific notification requiring mandatory follow-up. Nevertheless, at the discretion of the <u>Passport Custodian</u>, an <u>APMU</u> may be requested to review normal <u>Passports</u>.]

- 8.1.2 When assessing a Passport that generated an ATPF:
  - All ATPFs shall be reviewed by a Laboratory-based APMU manager;

[Comment: ATPFs are generated by the following primary Markers: hemoglobin (HGB) and the OFF-Score for the Hematological Module; the testosterone to epitestosterone ratio (T/E) in urine, and testosterone (T)

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and/or the testosterone to androstenedione ratio (T/A4) in blood for the Steroidal Module; and the GH-2000 score for the Endocrine Module.]

- The <u>APMU</u> shall review any previous <u>APMU Reports</u> associated with the <u>Passport</u>;
- The <u>APMU</u> shall assess the validity of individual <u>Samples</u> contained within the <u>Passport</u> in <u>ADAMS</u>, address any irregularities according to Article 8.2 of this <u>TD</u> and update the <u>APMU Report</u> accordingly;
- The <u>APMU</u> shall evaluate the need for urgent <u>Target Testing</u> of the <u>Athlete</u> and communicate <u>Testing</u> recommendations to the <u>Passport Custodian</u> via the <u>APMU Report</u> as required;
- The <u>APMU</u> shall assess the need for additional analysis of existing <u>Samples</u> by specific methods (e.g., Agents Affecting Erythropoiesis, Gas Chromatography / Combustion / Isotope Ratio Mass Spectrometry [GC/C/IRMS], <u>etc.)Steroid Esters</u>, <u>hGH Isoform Differential Immunoassay</u>, <u>etc.)</u> and communicate these to the <u>Passport Custodian</u> via the <u>APMU Report</u> as required. The <u>APMU</u> may also recommend specific <u>Sample(s)</u> to be placed in long-term storage.
- If an <u>Expert</u> has previously recommended that follow-up *Testing* include a minimum number of Samples before further review of an *Athlete's* <u>Passport</u> data, the <u>APMU</u> may delay sending the <u>Passport</u> for <u>Expert</u> review until the planned number of <u>Samples</u> have been <u>collected and</u> analyzed;
- If, after managing the Sample validity, the <u>Passport</u> remains atypical, the <u>APMU</u> shall, without delay, send the <u>Passport</u> for review in <u>ADAMS</u> by an <u>Expert</u> according to Article C.2.2 of the ISRM <sup>[1]</sup>. In the event of an <u>Expert</u> opinion of:
  - "Likely Doping": the <u>APMU</u> shall update the <u>APMU Report</u> indicating "Likely Doping", specifying any detailed analysis or *Testing* recommendations from the <u>Expert</u> (if provided), and continue the <u>Passport</u> review process according to Article C.3 of the ISRM [1];
  - "Suspicious": the <u>APMU</u> shall update the <u>APMU Report</u> indicating "Suspicious", highlighting the main atypical features, and outline a *Target Testing* strategy (if necessary) based on the <u>Expert</u> recommendations, or recommend further analysis (e.g., GC/C/IRMS);

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- "Normal": the <u>APMU</u> shall update the <u>APMU Report</u> indicating "Normal", summarizing the review by the <u>Expert</u> and outlining any <u>Testing</u> recommendations provided by the <u>Expert</u>;
- "Likely Medical Condition": the <u>APMU</u> shall update the <u>APMU Report</u> indicating "Likely Medical Condition" with submission to additional <u>Experts</u> if recommended in the <u>Expert</u> evaluation and should inform the <u>Athlete</u> via the <u>Passport Custodian</u>. If the first <u>Expert</u> is not a medical doctor, the <u>Passport</u> should be sent to a medical doctor from the <u>Expert</u> panel prior to contacting the <u>Passport Custodian</u>.

[Comment: the APMU recommendation in ADAMS should mirror the Expert's opinion(s) and any changes in the status of the APMU recommendation should be based on a change in Expert opinion(s) upon further review of the Passport.]

- 8.1.3 When assessing a urine Sample that generated an Atypical Passport Finding Confirmation Procedure Request (ATPF-CPR; see TD EAAS [3]) for the Steroidal Steroidal Passport:
  - The <u>APMU</u> shall assess the validity of the <u>Sample</u> generating the <u>Confirmation Procedure</u> (<u>CP</u>)
    request in <u>ADAMS</u>, address any irregularities according to Article 8.2 of this <u>TD</u> and update the
    <u>APMU Report</u> accordingly;
  - When the ATPF-CPR has been triggered for a Sample where the presence of ethanol or other
    factors impacting the steroid profile have been reported, the <u>APMU</u> shall evaluate the need to
    perform <u>CP(s)</u> and update the <u>APMU Report</u> accordingly within seven (7) days. Justification not to
    proceed with CP(s) may include:
    - the presence of ethanol glucuronide (EtG) in a Sample from an Athlete with previous similar findings in his/hertheir Passport with negative GC/C/IRMS results (indicating a pattern of alcohol abuse); or
    - communication of the existence of other AAFs reported for the Sample to the APMU by the <u>Passport Custodian</u> or <u>Testing Authority</u>, as applicable, which would likely lead to a maximum sanction; or
    - o communication of the existence of a *Therapeutic Use Exemption (TUE)* for the *Athlete* to the APMU by the Passport Custodian or *Testing* Authority, as applicable.

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[Comment: As stated in the TD EAAS, in such cases, the <u>Passport Custodian</u>, or <u>Testing Authority</u> as applicable, shall advise the <u>Laboratory</u>, in writing and within fifteen (15) days following reception of the ATPF-CPR notification, whether or not to proceed with <u>CP</u>(s) of the Sample's steroid profile.]

- In cases when an ATPF-CPR is generated for two (2) or more Samples, which are linked to a single <u>Sample Collection Session</u> from the same Athlete, the <u>APMU</u> should advise the <u>Passport Custodian</u>, and <u>Testing Authority</u> as applicable, to prioritize the confirmation of the <u>Sample</u> with the highest concentration of <u>Markers</u> of the steroid profile. In such cases, the <u>Passport Custodian</u>, or <u>Testing Authority</u> as applicable, shall advise the <u>Laboratory</u>, in writing and within fifteen (15) days following reception of the <u>ATPF-CPR</u> notification, whether or not to proceed with <u>CP(s)</u> of the <u>Sample</u>'s steroid profile.
- 8.1.4 When assessing a Suspicious Steroid Profile Confirmation Procedure Request (SSP-CPR):

The <u>APMU</u> will receive an SSP-CPR notification through *ADAMS* when there is no existing <u>urine</u> steroidal <u>Passport</u> for the *Athlete* in *ADAMS* (*i.e.* this is the first *Sample* in the *Athlete*'s steroidal <u>Passport</u>), and the *Sample*'s "steroid profile" meets any of the following criteria:

- a) T/E ratio > 4.0;
- b) Concentration of T or E (adjusted for the SG) > 200 ng/mL in males or > 50 ng/mL in females;
- c) Concentration of A or Etio (adjusted for the SG) > 10,000 ng/mL;
- d) Concentration of 5αAdiol (adjusted for the SG) > 250-ng/mL in males or > 150 ng/mL in females.

Upon receipt of an SSP-CPR notification:

- The <u>APMU</u> shall assess the validity of the *Sample* generating the <u>CP</u> request in *ADAMS*, address any irregularities according to Article 8.2 of this *TD* and update the <u>APMU Report</u> accordingly;
- The <u>APMU</u> shall evaluate the need to perform <u>CP(s)</u> and update the <u>APMU Report</u> accordingly within seven (7) days of receipt of the SSP-CPR notification. The <u>Passport Custodian</u>, or <u>Testing Authority</u> as applicable, shall advise the <u>Laboratory</u>, in writing and within fifteen (15) days following reception of the SSP-CPR notification, whether the <u>Laboratory</u> shall proceed with <u>CP(s)</u>.

[Comment: In the absence of an ATPF-CPR or SSP-CPR, the <u>APMU</u> may also make a recommendation for <u>CP</u>s of the steroid profile, based on assessment by the <u>APMU</u>.]

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#### 8.1.5 Expert Review of Normal Passports

The <u>APMU</u> should provide the <u>Experts</u> from time to time with <u>Passports</u> for review, even when the values are within normal <u>limitsranges</u> and presenting no suspicious elements, as this will ensure that <u>Experts</u> are provided a balanced perspective on the *Athletes*' Passports.

#### 8.2 Management of Sample Validity

- 8.2.1 The <u>APMU</u> shall assess and manage the validity of urine, <u>blood</u> (<u>serum</u>) and <u>blood</u> <u>ABP</u> (<u>whole</u> blood) Samples in ADAMS according to applicable <u>International Standards</u> and TDs, including the ISRM <sup>[1]</sup>, TD EAAS <sup>[3]</sup> <u>International Standard</u> for <u>Laboratories</u> (ISL) <sup>[4]</sup>, and the <u>International Standard</u> for <u>Testing</u> and <u>Investigations</u> (ISTI) <sup>[5]</sup>.
- 8.2.2 Any changes in *Sample* validity made by the <u>APMU</u> shall be noted in applicable fields in *ADAMS* and in the <u>APMU Report</u>.
- 8.2.3 Where multiple *Samples* were provided by an *Athlete* during a single <u>Sample Collection Session</u> and are present in a <u>Passport</u>, the <u>APMU</u> shall invalidate all but one *Sample* based on assessment by the <u>APMU</u>.
- 8.2.4 Where multiple *Samples* were provided by an *Athlete* on the same day from different <u>Sample Collection</u> <u>Sessions</u> and are present in a <u>Passport</u>, the <u>APMU</u> may invalidate all but one <u>Sample</u> after assessment by the <u>APMU</u> in consultation with the <u>Passport Custodian</u>, as required
- 8.2.5 For urine Samples where a substance(s) that may alter the steroid profile is detected by the <u>Laboratory</u> (e.g., alcohol), the <u>APMU</u> may invalidate the Sample when it is considered to affect the sensitivity of the <u>Adaptive Model</u> to detect changes in future Samples.
- 8.2.6 For ABP blood <u>ABP</u> Samples of suspicious profiles where the Blood Stability Score (BSS) could not be calculated, the <u>APMU</u> shall assess the collection-to-analysis time (CAT), any available temperature

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logger data, and the potential degradation of blood *Markers*, including scattergrams, in order to evaluate *Sample* validity, liaising with (an) <u>Expert(s)</u> as required.

#### 8.3 The APMU Report

The <u>APMU Report</u> is a central element in the administrative sequence of the *ABP* that shall be entered and maintained by the <u>APMU</u> in *ADAMS*. The <u>APMU Report</u> provides an up-to-date overview of the current status of an *Athlete's* <u>Passport</u> together with recommendations, as appropriate, for efficient follow-up by the <u>Passport Custodian</u>. The <u>APMU Report</u> serves to update the <u>Passport Custodian</u>, *WADA* and other *ADOs* with whom the <u>Passport</u> is shared. In addition, it provides a record of events associated with a <u>Passport</u> in *ADAMS*.

The <u>APMU Report</u> may include, without limitations:

- Assessments of Sample validity by the <u>APMU</u> and/or <u>Experts</u>;
- Recommendations for complementary <u>Analytical Testing</u> (e.g., Agents Affecting Erythropoiesis, HIF stabilizers, <u>Homologous Blood Transfusion</u>, confirmation of steroid profile, GC/C/IRMS, long-term steroid <u>Metabolites</u>, IGF-I analogs, <u>etc.)Steroid Esters</u>, <u>hGH Isoform Differential Immunoassay etc.</u>) on <u>Samples</u> collected;
- Recommendations for further Analytical Testing on Samples collected previously;
- Recommendations for long-term storage of Samples for Further Analysis;
- Target Testing recommendations based on available data and Experts' recommendations; and
- · A summary of any recent Expert reviews.
- 8.3.1 <u>APMU Reports</u> shall be written in English and should not contain any information that could identify the *Athlete*.
- 8.3.2 The <u>APMU Report</u> shall not contain any reference to an *AAF* that may be known to the <u>APMU</u>, with the exception of when the *AAF* is used by the <u>APMU</u> as a reason not to perform <u>CP(s)</u> following an *ATPF*-CPR or SSP-CPR for the steroid profile (see Articles 8.1.3 and 8.1.4 of this *TD*). If the <u>APMU</u> assessment leads to an <u>Expert</u> review, the <u>APMU</u> may, however, separately inform the <u>Expert(s)</u> of the existence of the *AAF*. Depending on the result of the Expert review, the APMU shall further inform the *Results*

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<u>Management Authority</u> managing the AAF of the result of the <u>Expert</u> review, via the <u>Passport Custodian</u>, if that information is potentially relevant in the context of the <u>Results Management</u> based on the AAF.

[Comment: While <u>Passport</u> sharing is strongly encouraged to enhance ADO efficiencies and program effectiveness through exchange of information and mutual recognition of program outcomes, this must be carried out within the framework of the ISPPPI [2] and Article 14.1.4 of the Code [6]. The information regarding an AAF shall therefore not be recorded in the <u>APMU Report</u> and shall not be disclosed unnecessarily. Only those individuals and/or organizations involved in the applicable Results Management process should be privy to this information.]

8.3.3— *Target Testing* recommendations shall be included in the <u>APMU Report</u> with a sufficient level of detail for the <u>Passport Custodian</u> to conduct effective, timely and appropriate *Testing*.

#### 8.4 Investigating Urine Exchange

When a urine *Sample* steroid profile is not consistent with other *Sample*(s) from the *Athlete's <u>Passport</u>*, urine exchange with the urine of another individual may be suspected and confirmed using DNA analysis across multiple *Samples*. This process is managed and reported according to the following steps:

- -When evaluating a newly matched urine Sample, where other Samples exist in the Athlete's Passport, the APMU shall evaluate the likelihood that all Samples are from the same individual. If a Sample shows inconsistency compared to others in the Passport (e.g. differences in Marker levels), the APMU shall update the APMU Report indicating "Suspicion of Urine Exchange";
- If the <u>APMU</u> suspects urine exchange, an investigation shall be launched by the <u>Passport Custodian</u>, with support from the <u>APMU</u>, using a combination of actions such as <u>Sample</u> storage, confirmation of the steroid profiles of relevant <u>Samples</u>, collection of additional <u>Samples</u>, and/or DNA analysis, as applicable.
- 8.4.1 The outcomes of this investigation may indicate:
  - a) Confirmation by DNA analysis that all *Samples* belong to the same *Athlete*. In this case, the <u>APMU</u> shall update the <u>APMU Report</u> accordingly.
  - b) Multiple DNA profiles are present: where at least two (2) different DNA profiles are identified across different Samples, where each urine Sample corresponds to a single DNA profile, however the DNA profile corresponding to the Athlete under investigation is not known. A strategy shall be undertaken

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in order to obtain additional *Samples* and the <u>APMU</u> shall update the <u>APMU Report</u> accordingly indicating "Multiple DNA Profiles Identified".

- c) Confirmed urine exchange:- where at least two (2) different DNA profiles have been identified, where each urine Sample corresponds to a single DNA profile, and the DNA profile belonging to the Athlete is confirmed with a reasonable degree of certainty (e.g. using multiple Samples, different Sample types, different Sample Collection Personnel). In such cases, the APMU shall update the APMU Report, indicating "Urine Exchange Confirmed".
- d) Mixed Samples: where multiple DNA profiles are found within individual Samples. In such cases, the <u>APMU</u> shall liaise with the <u>Passport Custodian</u>, or <u>Testing Authority</u> as applicable, regarding the <u>Sample</u> in question to explore whether the <u>Laboratory</u> should consider further investigations towards declaring an AAF for Sample Tampering or Attempted Tampering.

[Comment: Where Tampering or Attempted Tampering of a Sample can be established by the analyzing <u>Laboratory</u> based on evidence from that Sample alone (e.g., substitution with another fluid, mixing of urines, addition of proteases to the Sample), the <u>Laboratory</u> can report the finding as an AAF or Atypical Finding for Tampering or Attempted Tampering (see Article 4.0 of the TD EAAS <sup>[3]</sup>). In contrast, when urine exchange can be established based on steroid profile and/or DNA evidence across multiple Samples, the <u>APMU</u> shall report the finding of confirmed urine exchange to the <u>Passport Custodian</u>, who shall proceed with Results Management according to Code Article 2.2 <sup>[6]</sup>]

#### 8.5 Analysis of Steroid Esters

When matched blood Samples demonstrate atypical or suspicious steroid Markers, or have been collected during the same <u>Sample Collection Session</u> as urine <u>Samples</u> identified with an atypical or suspicious "steroid profile", the <u>APMU</u>, in consultation with the <u>Passport Custodian</u>, should consider requesting analysis to detect the presence of <u>steroid esterSteroid Ester(s)</u> in the associated <u>serum/plasmablood Samples</u>.

The detection of steroid esterSteroid Ester(s) in serum/plasmablood also constitutes an unequivocal demonstration of the exogenous origin of the steroid(s). On the other hand, the absence of detectable steroid esterSteroid Ester(s) in serum/plasmablood shall not invalidate an AAF based on the GC/C/IRMS analysis in urine.

#### 8.6 Compiling the ABP Documentation Package

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- 8.6.1 The <u>APMU</u> shall be responsible for compiling the <u>ABP</u> <u>Documentation Package</u> using the template provided by <u>WADA</u>. The <u>Passport Custodian</u> shall collect information and bear the cost of compiling <u>ABP</u> <u>Documentation Packages</u> unless it has established an agreement to share the costs with relevant <u>Testing</u> Authorities.
- 8.6.2 Upon request by the <u>APMU</u> and as needed to compile the <u>ABP Documentation Package</u>, the <u>Passport Custodian</u> shall provide a detailed *Athlete Competition* and altitude schedule, relevant information from *DCF*s, temperature logger and <u>Chain of Custody</u> documentation to the <u>APMU</u>.
- 8.6.3 The <u>APMU</u> shall confer with the <u>Expert</u> panel to determine the scope of such compilation, including the recommended elements and the number of tests that need to be included. It is only mandatory to have a full <u>blood or urine</u>, as appropriate, *ABP* <u>Laboratory Documentation Package</u> for those <u>tests Samples</u>, that are deemed essential by the <u>Expert</u> panel (see TD LDOC <sup>[7]</sup>). Other relevant <u>tests Samples</u>, for example those that confirm the baseline levels of a *Marker*, only require a <u>blood or urine</u>, as appropriate, an *ABP* <u>Laboratory Certificate of Analysis</u> (see TD LDOC <sup>[7]</sup>). If the <u>Passport Custodian</u> is not the <u>Testing Authority</u> of the test requiring <u>Laboratory</u> documentation, the <u>Passport Custodian</u> shall coordinate with the <u>Testing Authority</u> to obtain such documentation.

[Comment: Where a Laboratory Documentation Package for specific analysis (GC/C/IRMS, ERA or hGH) is requested during the compilation of an ABP Documentation Package, a request should be addressed to the Laboratory as per specific Annexes of the TD LDOC.]

- 8.6.4 The following key information shall be included for both Haematological and in an ABP Documentation Package regardless of the module (Hematological, Steroidal Modules of the ABP Documentation Package; or Endocrine):
  - For the Athlete: age (excluding the date of birth), gender, and sport/discipline;
  - For all tests <u>Samples</u>: date and time of <u>Sample</u> collection, <u>ADAMS</u> ordinal number of the test in the Passport, <u>Sample</u> code, <u>Marker</u> values and graphical results obtained by the <u>Adaptive Model</u>;
  - For tests <u>Samples</u> selected by the <u>APMU</u> and <u>Expert</u> panel:
    - o ABP <u>Laboratory Documentation Package(s)</u> and/or ABP <u>Certificate(s)</u> of <u>Analysis</u> from the relevant Laboratory(-ies) and/or ABP Laboratory(-ies) (see TD LDOC [7]); and

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Date:	November <del>2020</del> 2022	Effective Datedate:	<del>01 April 2021</del> 1 January 2023

- The <u>Passport Custodian</u> shall provide Chain of Custody documentation, DCF information and a detailed <u>Competition</u> calendar covering the period defined by the selected <u>Samples</u>; and
- A compilation of the latest reviews from the Experts or the joint Expert opinion, as applicable.

For the Haematological Module, the following additional information shall be provided for the tests Samples selected by the APMU and Expert panel:

- Temperature profile during the transportation of the blood <u>ABP</u> Sample and, when available, the BSS; and
- Responses provided by the Athlete on the ABP Supplementary Report Form during the <u>Sample</u> <u>Collection Session</u>.

For the Steroidal Module, the following additional information shall be provided for the tests <u>Samples</u> selected by the <u>APMU</u> and <u>Expert</u> panel:

#### Urine Samples

- •opH-of the urine Sample;
- Specific gravity (SG) of the urine Sample;);
- •<u>oLaboratory</u> documentation, including screening and confirmed (when values (where applicable) values of steroid concentrations and ratios (see TD LDOC [7] and TD EAAS [3]); );
- GC/C/IRMS results, whenwhere applicable;
- •olndication of ethanol consumption: urinary concentrations of ethanol and/or ethanol *Metabolite*(s);
- Indication of microbial growth (see TD EAAS [3]); and
- •olnformation on the presence or absence of substances that may alter the steroid profile (see TD EAAS [3]).

#### Blood Samples

<u>o Laboratory documentation, including screening and confirmed concentrations (where applicable) of steroid *Markers* (see TD LDOC <sup>[7]</sup>);</u>

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<u>For the Endocrine Module, the following additional information shall be provided for the tests selected by the APMU and Expert panel:</u>

Laboratory documentation, including screening and confirmed concentrations (where applicable)
 of Markers of the Endocrine Module (see TD LDOC [7]);

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#### 9.0 References

- [1] The World Anti-Doping Code International Standard for Results Management.
- [2] The World Anti-Doping Code International Standard for the Protection of Privacy and Personal Information.
- [3] WADA Technical Document TD EAAS: Measurement and Reporting of Endogenous Anabolic Androgenic Steroid (EAAS) Markers of the Urinary Steroid Profile.
- [4] The World Anti-Doping Code International Standard for Laboratories.
- [5] The World Anti-Doping Code International Standard for Testing and Investigations.
- [6] The World Anti-Doping Code.
- [7] WADA Technical Document TD LDOC: Laboratory Documentation Packages.

[Comment: Current versions of WADA ISL and Technical Documents may be found at <a href="https://www.wada-ama.org/en/what-we-do/science-medical/laboratories">https://www.wada-ama.org/en/anti-doping-partners/laboratories</a>]

| https://www.wada-ama.org/en/anti-doping-partners/laboratories]

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