This List shall come into effect on 1 January 2016.

The official text of the Prohibited List shall be maintained by WADA and shall be published in English and French.

In the event of any conflict between the English and French versions, the English version shall prevail.
PROHIBITED SUBSTANCES

NON-APPROVED SUBSTANCES
Any pharmacological substance which is not addressed by any of the subsequent sections of the List and with no current approval by any governmental regulatory health authority for human therapeutic use (e.g. drugs under pre-clinical or clinical development or discontinued, designer drugs, substances approved only for veterinary use) is prohibited at all times.

ANABOLIC AGENTS
Anabolic agents are prohibited.

1. ANABOLIC ANDROGENIC STEROIDS (AAS)
   a. Exogenous* AAS, including:

   1-Androstenediol (5α-androst-1-ene-3β,17β-diol);
   1-Androstenedione (5α-androst-1-ene-3,17-dione);
   1-Testosterone (17β-hydroxy-5α-androst-1-en-3-one);
   4-Hydroxytestosterone (4,17β-dihydroxyandrost-4-en-3-one);
   19-Norandrostenedione (estr-4-ene-3,17-dione);
   Bolandiol (estr-4-ene-3β,17β-diol);
   Bolasterone;
   Boldenone;
   Boldione (androsta-1,4-diene-3,17-dione);
   Clostebol;
   Danazol ([1,2]oxazolo[4′,5′:2,3]pregna-4-en-20-yn-17α-ol);
   Dehydrochlormethyltestosterone (4-chloro-17β-hydroxy-17α-methylandrost-1,4-dien-3-one);
   Desoxymethyltestosterone (17α-methyl-5α-androst-2-2-en-3β-ol);
   Drostanolone;
   Ethylestrenol (19-norpregna-4-en-17α-ol);
   Fluoxymesterone;
   Formebolone;
   Furaqabol (17α-methyl [1,2,5]oxadiazolo[3′,4′:2,3]-5α-androstan-17β-ol);

   Gestrinone;
   Mestanolone;
   Mesterolone;
   Metandienone (17β-hydroxy-17α-methylandrosta-1,4-dien-3-one);
   Metenolone;
   Methandriol;
   Methasterone (17β-hydroxy-2α,17α-dimethyl-5α-androstan-3-one);
   Methyldienolone (17β-hydroxy-17α-methylenestra-4,9-dien-3-one);
   Methyl-1-testosterone (17β-hydroxy-17α-methyl-5α-androst-1-en-3-one);
   Methyl1-nortestosterone (17β-hydroxy-17α-methylenestra-4-en-3-one);
   Methyltestosterone;
   Metribolone [methyltrienolone, 17β-hydroxy-17α-methylenestra-4,9,11-trien-3-one];
   Mibolerone;
   Nandrolone;
   Norboleton;
   Norclostebol;
   Norethandrolone;
   Oxaboline;
   Oxandrolone;
   Oxymesterone;
   Oxymetholone;
   Prostanozol (17β-[(tetrahydropyran-2-yl)oxy]-1H-pyrazolo[3,4,2,3]-5α-androstan-17β-ol);
   Quinbolone;
   Stanozolol;
   Stenbolone;
   Tetrahydrogestrinone (17-hydroxy-18a-homo-19-nor-17α-pregna-4,9,11-trien-3-one);
   Trenbolone (17β-hydroxyestr-4,9,11-trien-3-one);

and other substances with a similar chemical structure or similar biological effect(s).
b. Endogenous** AAS when administered exogenously:

- Androstenediol (androst-5-ene-3β,17β-diol);
- Androstenedione (androst-4-ene-3,17-dione);
- Dihydrotestosterone (17β-hydroxy-5α-androstan-3-one);
- Prasterone (dehydroepiandrosterone, DHEA, 3β-hydroxyandrost-5-en-17-one);
- Testosterone;
- and their metabolites and isomers, including but not limited to:

  - 3β-Hydroxy-5α-androstan-17-one;
  - 5α-Androstan-3α,17α-diol;
  - 5α-Androstan-3β,17β-diol;
  - 5α-Androstan-3β,17α-diol;
  - 5β-Androstan-3α,17β-diol;
  - 7α-Hydroxy-DHEA;
  - 7β-Hydroxy-DHEA;
  - 4-Androstenediol (androst-4-ene-3β, 17β-diol)
  - 5-Androstenedione (androst-5-ene-3,17-dione);
  - 7-Keto-DHEA;
  - 19-Norandosterone;
  - 19-Noretioclanolone.
- Androst-4-ene-3α,17α-diol;
- Androst-4-ene-3α,17β-diol;
- Androst-4-ene-3β,17α-diol;
- Androst-5-ene-3α,17α-diol;
- Androst-5-ene-3α,17β-diol;
- Androst-5-ene-3β,17α-diol;
- Androsterone
- Epi-dihydrotestosterone;
- Epitestosterone;
- Etioclanolone.

2. OTHER ANABOLIC AGENTS

Including, but not limited to:
Clenbuterol, selective androgen receptor modulators (SARMs, e.g. andarine and ostarine), tibolone, zeranol and zilpaterol.

For purposes of this section:
* "exogenous" refers to a substance which is not ordinarily produced by the body naturally.
** "endogenous" refers to a substance which is ordinarily produced by the body naturally.

PEPTIDE HORMONES, GROWTH FACTORS, RELATED SUBSTANCES AND MIMETICS

The following substances, and other substances with similar chemical structure or similar biological effect(s), are prohibited:

1. Erythropoietin-Receptor agonists:
   1.1 Erythropoiesis-Stimulating Agents (ESAs) including e.g.
   - Darbepoietin (dEPO);
   - Erythropoietins (EPO);
   - EPO-Fc;
   - EPO-mimetic peptides (EMP), e.g. CNTO 530 and peginesatide; methoxy polyethylene glycol-epoetin beta (CERA).

1.2 Non-erythropoietic EPO-Receptor agonists, e.g.
   - ARA-290;
   - asialo EPO;
   - carbamylated EPO.

2. Hypoxia-inducible factor (HIF) stabilizers, e.g. cobalt and FG-4592; and HIF activators, e.g. argon, xenon;

3. Chorionic Gonadotrophin (CG) and Luteinizing Hormone (LH) and their releasing factors, e.g. buserelin, gonadorelin and leuprorelin, in males;

4. Corticotrophins and their releasing factors, e.g. corticorelin;
5. Growth Hormone (GH) and its releasing factors including: Growth Hormone Releasing Hormone (GHRH) and its analogues, e.g. CJC-1295, sermorelin and tesamorelin; Growth Hormone Secretagogues (GHS), e.g. ghrelin and ghrelin mimetics, e.g. anamorelin and ipamorelin; GH-Releasing Peptides (GHRPs), e.g. alexamorelin, GHRP-6, hexarelin and pralmorelin (GHRP-2).

Additional prohibited growth factors:

- Fibroblast Growth Factors (FGFs);
- Hepatocyte Growth Factor (HGF);
- Insulin-like Growth Factor-1 (IGF-1) and its analogues;
- Mechano Growth Factors (MGFs);
- Platelet-Derived Growth Factor (PDGF);
- Vascular-Endothelial Growth Factor (VEGF)

and any other growth factor affecting muscle, tendon or ligament protein synthesis/degradation, vascularisation, energy utilization, regenerative capacity or fibre type switching.

### S3 BETA-2 AGONISTS

All beta-2 agonists, including all optical isomers, e.g. d- and l- where relevant, are prohibited.

**Except:**
- Inhaled salbutamol (maximum 1600 micrograms over 24 hours);
- Inhaled formoterol (maximum delivered dose 54 micrograms over 24 hours); and
- Inhaled salmeterol in accordance with the manufacturers’ recommended therapeutic regimen.

The presence in urine of salbutamol in excess of 1000 ng/mL or formoterol in excess of 40 ng/mL is presumed not to be an intended therapeutic use of the substance and will be considered as an *Adverse Analytical Finding* (AAF) unless the Athlete proves, through a controlled pharmacokinetic study, that the abnormal result was the consequence of the use of the therapeutic inhaled dose up to the maximum indicated above.

### S4 HORMONE AND METABOLIC MODULATORS

The following hormone and metabolic modulators are prohibited:

1. Aromatase inhibitors including, but not limited to:
   - 4-Androstene-3,6,17 trione (6-oxo);
   - Anastrozole;
   - Androsta-1,4,6-triene-3,17-dione (androstatrienedione);
   - Exemestane;
   - Formestane;
   - Letrozole;
   - Testolactone.

2. Selective estrogen receptor modulators (SERMs) including, but not limited to:
   - Raloxifene;
   - Tamoxifen;
   - Toremifene.

3. Other anti-estrogenic substances including, but not limited to:
   - Clomiphene;
   - Cyclofenil;
   - Fulvestrant.

4. Agents modifying myostatin function(s) including, but not limited to: myostatin inhibitors.

5. Metabolic modulators:
   - 5.1 Activators of the AMP-activated protein kinase (AMPK), e.g. AICAR; and Peroxisome Proliferator Activated Receptor δ (PPARδ) agonists, e.g. GW 1516;
   - 5.2 Insulins and insulin-mimetics;
   - 5.3 Meldonium;
   - 5.4 Trimetazidine.
DIURETICS AND MASKING AGENTS

The following diuretics and masking agents are prohibited, as are other substances with a similar chemical structure or similar biological effect(s).

Including, but not limited to:
- Desmopressin; probenecid; plasma expanders, e.g. glycerol and intravenous administration of albumin, dextran, hydroxyethyl starch and mannitol.
- Acetazolamide; amiloride; bumetanide; canrenone; chlortalidone; etacrynic acid; furosemide; indapamide; metolazone; spironolactone; thiazides, e.g. bendroflumethiazide, chlorothiazide and hydrochlorothiazide; triamterene and vaptans, e.g. tolvaptan.

Except:
- Drospirenone; pamabrom; and ophthalmic use of carbonic anhydrase inhibitors (e.g. dorzolamide, brinzolamide).
- Local administration of felypressin in dental anaesthesia.

The detection in an Athlete’s Sample at all times or In-Competition, as applicable, of any quantity of the following substances subject to threshold limits: formoterol, salbutamol, cathine, ephedrine, methylephedrine and pseudoephedrine, in conjunction with a diuretic or masking agent, will be considered as an Adverse Analytical Finding unless the Athlete has an approved TUE for that substance in addition to the one granted for the diuretic or masking agent.

MANIPULATION OF BLOOD AND BLOOD COMPONENTS

The following are prohibited:

1. The Administration or reintroduction of any quantity of autologous, allogenic (homologous) or heterologous blood, or red blood cell products of any origin into the circulatory system.

2. Artificially enhancing the uptake, transport or delivery of oxygen. Including, but not limited to: Perfluorochemicals; efaproxiral (RSR13) and modified haemoglobin products, e.g. haemoglobin-based blood substitutes and microencapsulated haemoglobin products, excluding supplemental oxygen.

3. Any form of intravascular manipulation of the blood or blood components by physical or chemical means.

CHEMICAL AND PHYSICAL MANIPULATION

The following are prohibited:

1. Tampering, or Attempting to Tamper, to alter the integrity and validity of Samples collected during Doping Control.

Including, but not limited to: Urine substitution and/or adulteration, e.g. proteases.

2. Intravenous infusions and/or injections of more than 50 mL per 6 hour period except for those legitimately received in the course of hospital admissions, surgical procedures or clinical investigations.

GENE DOPING

The following, with the potential to enhance sport performance, are prohibited:

1. The transfer of polymers of nucleic acids or nucleic acid analogues;

2. The use of normal or genetically modified cells.
IN ADDITION TO THE CATEGORIES S0 TO S5 AND M1 TO M3 DEFINED ABOVE, THE FOLLOWING CATEGORIES ARE PROHIBITED IN-COMPETITION:

PROHIBITED SUBSTANCES

**STIMULANTS**

All stimulants, including all optical isomers, e.g. $d$- and $l$- where relevant, are prohibited.

Stimulants include:

a: Non-Specified Stimulants:

Adrafinil;
Amfepramone;
Amfetamine;
Amfetaminil;
Amiphenazole;
Benfluorex;
Benzylpiperazine;
Bromantan;
Cllobenzorex;
Cocaine;
Cropropamide;
Crotetamide;
Fencamine;
Fenetylline;
Fenfluramine;
Fenproporex;
Fonturacetam [4-phenylpiracetam [carphedon]];
Furfenorex;
Mefenorex;
Mephentermine;
Mesocarb;
Metamfetamine(d-);
p-Methylamphetamine;
Modafinil;
Norfenfluramine;
Phendimetrazine;
Phentermine;
Prenylamine;
Prolintane.

A stimulant not expressly listed in this section is a Specified Substance.

b: Specified Stimulants.

Including, but not limited to:

Benzetamine;
Cathine**;
Cathinone and its analogues, e.g. mephedrone, methedrone, and α-pyrrolidinovalerophenone;
Dimethylamphetamine;
Ephedrine***;
Epinephrine**** (adrenaline);
Etilamfetamine;
Etilerine;
Famprofazone;
Fenbutrazate;
Fencamfamin;
Heptaminol;
Hydroxyamphetamine [parahydroxyamphetamine];
Isometheptene;
Levmetamfetamine;
Meclofenoxate;
Methylenedioxyamphetamine;
Methylephedrine***;
Methylhexaneamine (dimethylpentyamine);
Methylphenidate;
Nikethamide;
Norfenefrine;
Octopamine;
Oxilofrine [methylsynephrine];
Pemoline;
Pentetrazol;
Phenethalamine and its derivatives;
Phenmetrazine;
Phenpromethamine;
Propylhexedrine;
Pseudoephedrine*****;
Selegiline;
Sibutramine;
Strychnine;
**Tenamfetamine** (methylene dioxyamphetamine);
Tuaminoheptane;
and other substances with a similar chemical structure or similar biological effect(s).

**Except:**
- Clonidine
- Imidazole derivatives for topical/ophthalmic use and those stimulants included in the 2016 Monitoring Program*.

* Bupropion, caffeine, nicotine, phenylephrine, phenylpropanolamine, pipradrol, and synephrine: These substances are included in the 2016 Monitoring Program, and are not considered *Prohibited Substances.*
** Cathine: Prohibited when its concentration in urine is greater than 5 micrograms per milliliter.
*** Ephedrine and methylephedrine: Prohibited when the concentration of either in urine is greater than 10 micrograms per milliliter.
**** Epinephrine (adrenaline): Not prohibited in local administration, e.g. nasal, ophthalmologic, or co-administration with local anaesthetic agents.
***** Pseudoephedrine: Prohibited when its concentration in urine is greater than 150 micrograms per milliliter.

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**NARCOTICS**

Prohibited:
- Buprenorphine;
- Dextromoramide;
- Diamorphine (heroin);
- Fentanyl and its derivatives;
- Hydromorphone;
- Methadone;
- Morphine;
- Oxycodone;
- Oxymorphone;
- Pentazocine;
- Pethidine.

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**CANNABINOIDS**

Prohibited:
- Natural, e.g. cannabis, hashish and marijuana, or synthetic Δ9-tetrahydrocannabinol (THC).

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**GLUCOCORTICOIDS**

All glucocorticoids are prohibited when administered by oral, intravenous, intramuscular or rectal routes.
ALCOHOL
Alcohol (ethanol) is prohibited *In-Competition only*, in the following sports. Detection will be conducted by analysis of breath and/or blood. The doping violation threshold is equivalent to a blood alcohol concentration of 0.10 g/L.

- Air Sports (FAI)
- Archery (WA)
- Automobile (FIA)
- Powerboating (UIM)

BETA-BLOCKERS
Beta-blockers are prohibited *In-Competition only*, in the following sports, and also prohibited *Out-of-Competition* where indicated.

- Archery (WA)*
- Automobile (FIA)
- Billiards (all disciplines) (WCBS)
- Darts (WDF)
- Golf (IGF)
- Shooting (ISSF, IPC)*
- Skiing/Snowboarding (FIS) in ski jumping, freestyle aerials/halfpipe and snowboard halfpipe/big air
- Underwater sports (CMAS) in constant-weight apnoea with or without fins, dynamic apnoea with and without fins, free immersion apnoea, Jump Blue apnoea, spearfishing, static apnoea, target shooting and variable weight apnoea.

*Also prohibited *Out-of-Competition*

Including, but not limited to:

- Acebutolol
- Alprenolol
- Atenolol
- Betaxolol
- Bisoprolol
- Bunolol
- Carteolol
- Carvedilol
- Celiprolol
- Esmolol
- Labetalol
- Levobunolol
- Metipranolol
- Metoprolol
- Nadolol
- Oxprenolol
- Pindolol
- Propranolol
- Sotalol
- Timolol