

**SUBSTITUTES APPENDIX A OF THE OMAC 1999**

**OLYMPIC MOVEMENT ANTI-DOPING CODE**  
**APPENDIX A**

**PROHIBITED CLASSES OF SUBSTANCES AND PROHIBITED METHODS**

**1st April 2000**

**I. PROHIBITED CLASSES OF SUBSTANCES**

**A. Stimulants**

Prohibited substances in class (A) include the following examples:

**amineptine, amiphenazole, amphetamines, bromantan, caffeine\*,  
carphedon, cocaine, ephedrines\*\*, fencamfamin, mesocarb, pentetrazol,  
pipradrol, salbutamol\*\*\*, salmeterol\*\*\*, terbutaline\*\*\*,  
... and related substances.**

\* For caffeine the definition of a positive is a concentration in urine greater than 12 micrograms per millilitre.

\*\* For cathine, the definition of a positive is a concentration in urine greater than 5 micrograms per millilitre. For ephedrine and methylephedrine, the definition of a positive is a concentration in urine greater than 10 micrograms per millilitre. For phenylpropanolamine and pseudoephedrine, the definition of a positive is a concentration in urine greater than 25 micrograms per millilitre.

\*\*\* Permitted by inhaler only to prevent and/or treat asthma and exercise-induced asthma. Written notification of asthma and/or exercise-induced asthma by a respiratory or team physician is necessary to the relevant medical authority.

**NOTE:** All imidazole preparations are acceptable for topical use. Vasoconstrictors may be administered with local anaesthetic agents. Topical preparations (e.g. nasal, ophthalmological, rectal) of adrenaline and phenylephrine are permitted.

**B. Narcotics**

Prohibited substances in class (B) include the following examples:

**buprenorphine, dextromoramide, diamorphine (heroin), methadone,  
morphine, pentazocine, pethidine,  
... and related substances.**

**NOTE:** codeine, dextromethorphan, dextropropoxyphene, dihydrocodeine, diphenoxylate, ethylmorphine, pholcodine, propoxyphene and tramadol are permitted.

## C. Anabolic agents

Prohibited substances in class (C) include the following examples:

### 1. Anabolic androgenic steroids

**a.**

**clostebol, fluoxymesterone, metandienone, metenolone, nandrolone, 19-norandrostenediol, 19-norandrostenedione, oxandrolone, stanozolol, ... and related substances.**

**b.**

**androstenediol, androstenedione, dehydroepiandrosterone (DHEA), dihydrotestosterone, testosterone\*, ... and related substances.**

Evidence obtained from metabolic profiles and/or isotopic ratio measurements may be used to draw definitive conclusions.

\* The presence of a testosterone (T) to epitestosterone (E) ratio greater than six (6) to one (1) in the urine of a competitor constitutes an offence unless there is evidence that this ratio is due to a physiological or pathological condition, e.g. low epitestosterone excretion, androgen producing tumour, enzyme deficiencies.

In the case of T/E greater than 6, it is mandatory that the relevant medical authority conducts an investigation before the sample is declared positive. A full report will be written and will include a review of previous tests, subsequent tests and any results of endocrine investigations. In the event that previous tests are not available, the athlete should be tested unannounced at least once per month for three months. The results of these investigations should be included in the report. Failure to co-operate in the investigations will result in declaring the sample positive.

### 2. Beta-2 agonists

**bambuterol, clenbuterol, fenoterol, formoterol, reproterol, salbutamol\*, salmeterol\*, terbutaline\*, ... and related substances.**

\*Authorized by inhalation as described in Article (I.A.).

For salbutamol the definition of a positive under the anabolic agent category is a concentration in urine greater than 1000 nanograms per millilitre.

## D. Diuretics

Prohibited substances in class (D) include the following examples:

**acetazolamide, bumetanide, chlortalidone, etacrynic acid, furosemide, hydrochlorothiazide, mannitol\*, mersalyl, spironolactone, triamterene, ... and related substances.**

\* Prohibited by intravenous injection.

## E. Peptide hormones, mimetics and analogues

Prohibited substances in class (E) include the following examples and their analogues and mimetics:

1. **Chorionic Gonadotrophin** (hCG) prohibited in males only;
2. **Pituitary and synthetic gonadotrophins** (LH) prohibited in males only;
3. **Corticotrophins** (ACTH, tetracosactide);
4. **Growth hormone** (hGH);
5. **Insulin-like Growth Factor** (IGF-1);

and all the respective releasing factors and their analogues;

6. **Erythropoietin** (EPO);
7. **Insulin;**

permitted only to treat athletes with certified insulin-dependent diabetes. Written certification of insulin-dependent diabetes must be obtained from an endocrinologist or team physician.

The presence of an abnormal concentration of an endogenous hormone in class (E) or its diagnostic marker(s) in the urine of a competitor constitutes an offence unless it has been proven to be due to a physiological or pathological condition.

## **II. PROHIBITED METHODS**

The following procedures are prohibited:

1. Blood doping;
2. Administering artificial oxygen carriers or plasma expanders;
3. Pharmacological, chemical and physical manipulation.

### III. CLASSES OF PROHIBITED SUBSTANCES IN CERTAIN CIRCUMSTANCES

#### **A. Alcohol**

Where the rules of a responsible authority so provide, tests will be conducted for ethanol.

#### **B. Cannabinoids**

Where the rules of a responsible authority so provide, tests will be conducted for cannabinoids (e.g. Marijuana, Hashish). At the Olympic Games, tests will be conducted for cannabinoids. A concentration in urine of 11-nor-delta 9-tetrahydrocannabinol-9-carboxylic acid (carboxy-THC) greater than 15 nanograms per millilitre constitutes doping.

#### **C. Local anaesthetics**

Injectable local anaesthetics are permitted under the following conditions:

- a. bupivacaine, lidocaine, mepivacaine, procaine, and related substances, can be used but not cocaine. Vasoconstrictor agents may be used in conjunction with local anaesthetics;
- b. only local or intra-articular injections may be administered;
- c. only when medically justified.

Where the rules of a responsible authority so provide, notification of administration may be necessary.

#### **D. Glucocorticosteroids**

The systemic use of glucocorticosteroids is prohibited when administered orally, rectally, or by intravenous or intramuscular injection.

#### **E. Beta-blockers**

Prohibited substances in class (E) include the following examples:

**acebutolol, alprenolol, atenolol, labetalol, metoprolol, nadolol, oxprenolol, propranolol, sotalol,  
... and related substances.**

Where the rules of a responsible authority so provide, tests will be conducted for beta-blockers.

### **SUMMARY OF URINARY CONCENTRATIONS ABOVE WHICH IOC ACCREDITED LABORATORIES**

## MUST REPORT FINDINGS FOR SPECIFIC SUBSTANCES

caffeine	> 12 micrograms/millilitre
carboxy-THC	> 15 nanograms/millilitre
cathine	> 5 micrograms / millilitre
ephedrine	> 10 micrograms / millilitre
epitestosterone	> 200 nanograms / millilitre
methylephedrine	> 10 micrograms / millilitre
morphine	> 1 microgram / millilitre
19-norandrosterone	> 2 nanograms /millilitre in males
19-norandrosterone	> 5 nanograms/millilitre in females
phenylpropanolamine	> 25 micrograms / millilitre
pseudoephedrine	> 25 micrograms / millilitre
salbutamol	
(as stimulant)	> 100 nanograms/millilitre
(as anabolic agent)	>1000 nanograms/millilitre
T/E ratio	> 6

## **IV. OUT-OF-COMPETITION TESTING**

Unless specifically requested by the responsible authority, out-of-competition testing is directed solely at prohibited substances in class I.C. (Anabolic Agents), I.D. (Diuretics), I.E. (Peptide Hormones, Mimetics and Analogues), and II (Prohibited Methods).

## LIST OF EXAMPLES OF PROHIBITED SUBSTANCES

CAUTION: This is not an exhaustive list of prohibited substances. Many substances that do not appear on this list are considered prohibited under the term "and related substances". Athletes must ensure that any medicine, supplement, over-the-counter preparation or any other substance they use does not contain any Prohibited Substance.

#### STIMULANTS:

amineptine, amfepramone, amiphenazole, amphetamine, bambuterol, bromantan, caffeine, carphedon, cathine, cocaine, cropropamide, crotethamide, ephedrine, etamivan, etilamphetamine, etilefrine, fencamfamin, fenetylline, fenfluramine, formoterol, heptaminol, mefenorex, mephentermine, mesocarb, methamphetamine, methoxyphenamine, methylenedioxyamphetamine, methylephedrine, methylphenidate, nikethamide, norfenfluramine, parahydroxyamphetamine, pemoline, pentetrazol, phendimetrazine, phentermine, phenylephrine, phenylpropanolamine, pholedrine, pipradrol, prolintane, propylhexedrine, pseudoephedrine, reproterol, salbutamol, salmeterol, selegiline, strychnine, terbutaline,

#### NARCOTICS:

buprenorphine, dextromoramide, diamorphine (heroin), hydrocodone, methadone, morphine, pentazocine, pethidine,

#### ANABOLIC AGENTS :

androstenediol, androstenedione, bambuterol, boldenone, clenbuterol, clostebol, danazol, dehydrochlormethyltestosterone, dehydroepiandrosterone (DHEA), dihydrotestosterone, drostanolone, fenoterol, fluoxymesterone, formebolone, formoterol, gestrinone, mesterolone, metandienone, metenolone, methandriol, methyltestosterone, mibolerone, nandrolone, 19-norandrostenediol, 19-norandrostenedione, norethandrolone, oxandrolone, oxymesterone, oxymetholone, reproterol, salbutamol, salmeterol, stanozolol, terbutaline, testosterone, trenbolone,

#### DIURETICS

acetazolamide, bendroflumethiazide, bumetanide, canrenone, chlortalidone, ethacrynic acid, furosemide, hydrochlorothiazide, indapamide, mannitol (by intravenous injection), mersalyl, spironolactone, triamterene,

#### MASKING AGENTS

bromantan, diuretics (see above), epitestosterone, probenecid,

#### PEPTIDE HORMONES, MIMETICS AND ANALOGUES

**ACTH, erythropoietin (EPO), hCG\*, hGH, insulin, LH\***, clomiphene\*,  
cyclofenil\*, tamoxifen\*,  
\* prohibited in males only

#### BETA BLOCKERS

**acebutolol, alprenolol, atenolol, betaxolol, bisoprolol, bunolol, carteolol,  
celiprolol, esmolol, labetalol, levobunolol, metipranolol, metoprolol,  
nadolol, oxprenolol, pindolol, propranolol, sotalol, timolol.**