STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance:  I - 1alpha-Methyl-5alpha-androstan-3alpha-ol-17-one
           II - 5beta-Androst-1-en-17beta-ol-3-one
           III - 2alpha-methyl-5alpha-androstan-3alpha-ol-17-one
           IV - 16beta-hydroxyfurazabol
           V - Epimetendiol
           VI - 13beta,17alpha-Diethyl-5alpha-gonane-3alpha,17beta-diol

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled ✓
Not Controlled □

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

• The substances are metabolites of anabolic steroids and therefore are included under item 23 of Schedule IV to the CDSA.

Prepared by: ________________________________ Date: Dec 8th 2010
Evelyn Soo

Verified by: ________________________________ Date: __________
Marianne Tang

Approved by: ________________________________ Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Tanya Arcand
Drug Status Report

**Drug:**
I - 1alpha-Methyl-5alpha-androstan-3alpha-ol-17-one  
II - 5beta-Androst-1-en-17beta-ol-3-one  
III - 2alpha-Methyl-5alpha-androstan-3alpha-ol-17-one  
IV - 16beta-Hydroxyfurazabol  
V - Epimetendiol  
VI - 13beta,17alpha-Diethyl-5alpha-gonane-3alpha,17beta-diol

**Drug Name Status:**
I - 1alpha-Methyl-5alpha-androstan-3alpha-ol-17-one  
II - 5beta-Androst-1-en-17beta-ol-3-one  
III - 2alpha-Methyl-5alpha-androstan-3alpha-ol-17-one  
IV - 16beta-Hydroxyfurazabol  
V - Epimetendiol  
VI - 13beta,17alpha-Diethyl-5alpha-gonane-3alpha,17beta-diol are the common names

**Chemical Name:**
I - 1alpha-Methyl-5alpha-androstan-3alpha-ol-17-one  
II - 5beta-Androst-1-en-17beta-ol-3-one  
III - 2alpha-Methyl-5alpha-androstan-3alpha-ol-17-one  
IV - 16beta,17beta-dihydroxy-alpha-androstano[2,3-c]furazan  
V - 17beta-Methyl-5beta-androst-1-en-3alpha,17alpha-diol  
VI - 13beta,17alpha-Diethyl-5alpha-gonane-3alpha,17beta-diol

**Chemical structure:**

![Chemical structures](image-url)
**Molecular Formula:** I- C_{20}H_{32}O_{2}; II-C_{19}H_{28}O_{2}; III-C_{20}H_{32}O_{2}; IV-C_{20}H_{30}N_{2}O_{3}; V-C_{20}H_{32}O_{2}; VI-C_{21}H_{36}O_{2}

**Pharmacological class / Application:** Steroid metabolites

**CAS-RN:** I- 3398-67-2; II-10529-96-1; III-6961-54-2; IV-36455-74-0; V-132830-78-5; VI- NONE

**International status:**


United Nations: The substances are not listed specifically on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 1alpha-Methyl-5alpha-androstan-3alpha-ol-17-one, 5beta-androst-1-en-17beta-ol-3-one, 2alpha-methyl-5alpha-androstan-3alpha-ol-17-one, 16beta-hydroxyfurazabol, epimetendiol and 13beta,17alpha-Diethyl-5alpha-gonane-3alpha,17beta-diol are not listed specifically in the CDSA. The substances are all metabolites of anabolic steroids listed under the heading “Anabolic steroids and their derivatives including” of item 23 of Schedule IV to the CDSA. Specifically, they are the metabolites of mesterolone (sub-item 21)\(^1\), boldenone (sub-item 7)\(^2\), drostanolone (sub-item 11)\(^3\), furazabol (sub-item 18)\(^4\), metandienone (sub-item 22)\(^5\) and

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norboletone (subitem 29) respectively, and as such are included under item 23 of Schedule IV as derivatives of the corresponding anabolic steroids.

**Recommendation:** 1alpha-Methyl-5alpha-androstan-3alpha-ol-17-one, 5beta-androst-1-en-17beta-ol-3-one, 2alpha-methyl-5alpha-androstan-3alpha-ol-17-one, 16beta-hydroxyfurazabol, epimetendiol and 13beta,17alpha-Diethyl-5alpha-gonane-3alpha,17beta-diol are included under item 23 of Schedule IV to the CDSA and are controlled substances.

**Date:** 8 December 2010

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