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

Substance:  
I - 9alpha-Fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one  
II - 9alpha-Fluoro-17alpha-methylandrostan-4-ene-3alpha,6beta,11beta-tetrol

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 the anabolic steroid fluxymesterone and therefore are included under item 23 of Schedule IV to the CDSA.

Prepared by:  _______________________________  Date:  Dec 16th 2010

Evelyn Soo

Verified by:  _______________________________  Date:  __________

Marianne Tang

Approved by:  _______________________________  Date:  __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: “third party information removed as per agreement with applicant”
Drug Status Report

**Drug:**
I - 9alpha-Fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one  
II - 9alpha-Fluoro-17alpha-methylandrost-4-ene-3alpha,6beta,11beta-tetrol

**Drug Name Status:**
I - 9alpha-Fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one  
II - 9alpha-Fluoro-17alpha-methylandrost-4-ene-3alpha,6beta,11beta-tetrol are the common names

**Chemical Name:**
I - 9alpha-Fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one  
II - 9alpha-Fluoro-17alpha-methylandrost-4-ene-3alpha,6beta,11beta-tetrol

**Chemical structure:**

![Chemical structure of I and II](image)

**Molecular Formula:**
I - C_{20}H_{31}FO_{4}; II - C_{20}H_{27}FO_{2}

**Pharmacological class / Application:** Steroid metabolites

**CAS-RN:** I; II - None

**International status:**
US: 9alpha-Fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one and 9alpha-fluoro-17alpha-methylandrost-4-ene-3alpha,6beta,11beta-tetrol not listed specifically in the Schedules to the CSA and are not mentioned anywhere on the DEA website.

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: An earlier review of 9alpha-fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one and 9alpha-fluoro-17alpha-methylandrost-4-ene-3alpha,6beta,11beta-tetrol was made in 2002 and the steroids were considered not controlled under the CDSA. However, a recent status request for 9alpha-fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one prompted a secondary review of these substances as these steroids are in fact well-
established in the scientific literature to be metabolites of fluoxymesterone. Fluxoymesterone is currently listed as sub-item 23(16) in Schedule IV to the CDSA under the heading “Anabolic steroids and their derivatives including;” and as metabolites of fluoxymesterone, the substances must be included under sub-item 23(16) of Schedule IV to the CDSA.

**Recommendation:** 9alpha-Fluoro-18-nor-17,17-dimethylandrosta-4,13-diene-11beta-ol-3-one and 9alpha-fluoro-17alpha-methylandrost-4-ene-3alpha,6beta,11beta-tetrol are included under item 23 of Schedule IV to the CDSA and are controlled substances.

**Date:** 16 December 2010