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

Substance: 4-Estren-17alpha-methyl-4,17beta-diol-3-one

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 substance a derivative of oxabolone and is therefore included under item 23(32) of Schedule IV to the CDSA.

Prepared by: ___________________________ Date: March 14th 2011

Evelyn Soo

Verified by: ___________________________ Date: __________

Marianne Tang

Approved by: ___________________________ Date: __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Marnie Bewer
Drug Status Report

**Drug:** 4-Estren-17alpha-methyl-4,17beta-diol-3-one

**Drug Name Status:** 4-Estren-17alpha-methyl-4,17beta-diol-3-one is the common name.

**Chemical Name:** 17alpha-Methyl-4,17beta-dihydroxyestr-4-en-3-one

**Other Names:** 17alpha-Methyl-4-hydroxy-19-nortestosterone

**Chemical structure:**

![Chemical structure](image)

**Molecular Formula:** $C_{19}H_{28}O_3$

**Pharmacological class / Application:** Steroid

**CAS-RN:** NONE

**International status:**

US: 4-Estren-17alpha-methyl-4,17beta-diol-3-one is not listed specifically in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control. nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: 4-Estren-17alpha-methyl-4,17beta-diol-3-one is not listed specifically in the CDSA. The substance is a derivative of oxabolone (4,17beta-dihydroxyestr-4-en-3-one) and was synthesized to improve the bioavailability of the anabolic steroid\(^1\). Oxabolone is currently listed as sub-item 23(32) in Schedule IV to the CDSA under the heading “Anabolic steroids and their steroids”. As a derivative of oxabolone, the substance must be included under item 23(32) of Schedule IV to the CDSA.

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Recommendation: 4-Estren-17alpha-methyl-4,17beta-diol-3-one is included under item 23(32) of Schedule IV to the CDSA and is a controlled substance.

Date: 14 March 2011