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

Substance:  5alpha-Androstan-2-oxa-17beta-methyl-17alpha-ol-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 is a derivative of oxandrolone and included under sub-item 23(33)
of Schedule IV to the CDSA.

Prepared by: _______________________________       Date: March 15th 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:** 5alpha-Androstan-2-oxa-17beta-methyl-17alpha-ol-3-one

**Drug Name Status:** Epi-oxandrolone is the common name.

**Chemical Name:** 17alpha-hydroxy-17-methyl-2-oxa-5-androstan-3-one

**Chemical structure:**

![Chemical structure](image)

**Molecular Formula:** C_{24}H_{31}N_{3}O

**Pharmacological class / Application:** Steroid

**CAS-RN:** NONE

**International status:**

US: 5alpha-Androstan-2-oxa-17beta-methyl-17alpha-ol-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: 5alpha-Androstan-2-oxa-17beta-methyl-17alpha-ol-3-one is not currently listed in the CDSA. However, the substance has been reported in the literature to be a major metabolite of oxandrolone (5alpha-Androstan-2-oxa-17alpha-methyl-17beta-ol-3-one) which is listed in Schedule IV to the CDSA as sub-item 23(33). As a metabolite of oxandrolone, 5alpha-Androstan-2-oxa-17beta-methyl-17alpha-ol-3-one falls under the heading “Anabolic steroids and their derivatives:” and must be included under sub-item 23(33) of Schedule IV to the CDSA.

**Recommendation:** 5alpha-Androstan-2-oxa-17beta-methyl-17alpha-ol-3-one is included under item 23(33) of Schedule IV to the CDSA and is a controlled substance

**Date:** 15 March 2011