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

Substance: 6-oxirane boldenone

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

- Controlled
- Not Controlled

Controlled □

Not Controlled ✔

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

- The substance is an analogue of boldenone and a derivative of exemestane. It is therefore not included under item 23(7) of Schedule IV to the CDSA.

Prepared by: _______________________________ Date: Sept 20th 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:** 6-Oxirane boldenone

**Drug Name Status:** 6-Oxirane boldenone

**Chemical Name:** 17beta-Hydroxy-6alpha/beta-spirooxiranandrosta-1,4-diene-3-one

**Other Names:** (6alpha,17beta)-17-Hydroxyspiro[androsta-1,4-diene-6,2?-oxiran]-3-one; 17beta-Hydroxy-6alpha-spiro[androsta-1,4-diene-6,2-oxiran]-3-one; Exemestane Epoxide Metabolite

**Chemical structure:**

![Chemical structure image]

**Molecular Formula:** C$_{20}$H$_{26}$O$_{3}$

**Pharmacological class / Application:** Steroid derivative

**CAS-RN:** None

**International status:**

US: The substance is not listed specifically in the 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 6-oxirane boldenone is considered to be an analogue of boldenone and is a derivative of exemestane. The substance has not been reported in the scientific literature to display any anabolic activity and it is not listed in the CDSA. Boldenone, however, is presently listed in the CDSA as item 23(7) of Schedule IV, under the heading “Anabolic steroids and their derivatives including”. However, since 6-oxirane boldenone is not a derivative of boldenone, the substance is not included under item 23(7) of Schedule IV to the CDSA. In addition, analogues

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1 Buzzetti F et al. (1993) Synthesis of aromatase inhibition by potential metabolites of exemestane (6-methylenandrosta-1,4-diene-3,17-dione), Steroids, 58:527.
of anabolic steroids are not included in the heading of item 23 of Schedule IV to the CDSA.

**Recommendation:** 6-Oxirane boldenone is not included in the Schedules to the CDSA and is not a controlled substance.

**Date:** 20 September 2010