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

Substance: 5beta-Androstan-3beta,17alpha-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):

- There steroid is a minor metabolite of testosterone and therefore included under item 23(40) 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: 5beta-Androstan-3alpha,17beta-diol

Drug Name Status: 5beta-Androstan-3alpha,17beta-diol is the common name.

Chemical Name: (3alpha,17beta)-Dihydroxy-5beta-androstane

Other Names: Etiocholan-3alpha,17beta-diol

Chemical structure:

\[
\text{Molecular Formula: } C_{19}H_{32}NO_2
\]

Pharmacological class / Application: Steroid

CAS-RN: 1851-23-6

International status:

US: 5beta-Androstan-3alpha,17beta-diol 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: 5beta-Androstan-3alpha,17beta-diol is not currently listed in the CDSA. However, the substance has been shown in the scientific literature to be a minor metabolite of testosterone\(^1\) which is listed as sub-item 23(40) in Schedule IV to the CDSA under the heading “Anabolic steroids and their derivatives:”. Therefore, 5beta-Androstan-3alpha,17beta-diol must be included under sub-item 23(40) of Schedule IV to the CSDA.

Recommendation: 5beta-Androstan-3alpha,17beta-diol must be included under sub-item 23(40) of Schedule IV to the CDSA and considered a controlled substance.

Date: 14 March 2011