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

Substance: 5alpha-Androstane-3alpha,16alpha-17beta-triol

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 testosterone and must be included under item 23 of Schedule IV to the CDSA.

Prepared by: _______________________________ Date: Jan 16th 2012

Evelyn C Soo

Verified by: _______________________________ Date: _________

Mark Kozlowski

Approved by: _______________________________ Date: _________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Eva Roig, OCS
Drug Status Report

**Drug:** 5alpha-Androstane-3alpha,16alpha-17beta-triol

**Drug Name Status:** 16alpha-hydroxyandrostanediol is the common name.

**Chemical Name:** 5alpha-Androstane-3alpha,16alpha-17beta-triol

**Chemical structure:**

![Chemical Structure](image)

**Molecular Formula:** $C_{19}H_{32}O_3$

**Pharmacological class / Application:** Steroid

**CAS-RN:** 14197-52-3

**International status:**

US: 5alpha-Androstane-3alpha,16alpha-17beta-triol is not listed in 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-Androstane-3alpha,16alpha-17beta-triol is not listed in the schedules to the CDSA. The substance has been reported in the scientific literature to be a metabolite of testosterone\(^1\) which is currently listed as sub-item 23(40) in schedule IV to the CDSA under the heading “Anabolic steroids and their derivatives”. As a metabolite of testosterone, the substance is considered a derivative of testosterone and must be included under item 23 of Schedule IV to the CDSA.

---

**Recommendation:** 5alpha-Androstane-3alpha,16alpha-17beta-triol is included under item 23 of Schedule IV to the CDSA and is a controlled substance.

**Date:** January 16th, 2012