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

Substance:  7alpha-allyltestosterone

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 has not been reported in the literature to display any anabolic
activity and has not been shown to be a derivative of testosterone. Therefore, the
substance is not included under Item 23 of Schedule IV to the CDSA.

Prepared by: _______________________________  Date: August 10, 2011
Zack Li

Verified by: _______________________________  Date: __________
Mark Kozlowski

Approved by: _______________________________  Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Tanya Arcand, OCS
Drug Status Report

**Drug**: 7alpha-allyltestosterone

**Drug Name Status**: 7alpha-allyltestosterone is the common name.

**Chemical Name**: (7S,10R,13S,17S)-7-allyl-17-hydroxy-10,13-dimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3(2H)-one

**Other Name**: 7alpha-(prop-2-en-1-yl)-17beta–hydroxyandrost–4–en–3–one

**Chemical structure**:

![Chemical structure of 7alpha-allyltestosterone]

**Molecular Formula**: C_{22}H_{32}O_{2}

**CAS RN**: Unknown

**Pharmacological class / Application**: Anabolic steroids and derivatives

**International status**:

US: 7alpha-allyltestosterone is not listed on 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: 7alpha-allyltestosterone is reported to be an intermediate in the multi-step synthesis of two novel dimeric forms of testosterone, which have been shown in the scientific literature to be promising drug candidates for the treatment of prostate cancer\(^1\). Testosterone is currently listed as sub-item 23(40) in Schedule IV to the CDSA under the heading “Anabolic steroids and their derivatives”, however, 7alpha-allyltestosterone has not been reported to display any anabolic activity. In addition, the substance cannot be considered a direct derivative of testosterone, as it is synthesized in a 3-step process from testosterone and is not a metabolite of testosterone. Therefore, 7alpha-allyltestosterone cannot be included under sub-tem 23(40) of Schedule IV to the CDSA.

**Recommendation:** 7alpha-allyltestosterone is not included under item 23 of Schedule IV to the CDSA and is not a controlled substance.

**Date:** August 10, 2011