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

Substance: 5alpha-Hydroxy laxogenin

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 not structurally similar to any of the substances listed in the Schedules to the CDSA.

Prepared by: ________________________________ Date: Jan 3rd, 2012

Evelyn C Soo

Verified by: ________________________________ Date: _________

Mark Kozlowski

Approved by: ________________________________ Date: _________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Patrice Tiessen, CBSA
Drug Status Report

**Drug:** 5alpha-Hydroxy laxogenin

**Drug Name Status:** 5alpha-Hydroxy laxogenin is the common name.

**Chemical Name:** 3beta,-5alpha-Hydroxy-(25R)-3-hydroxy-spirostan-6-one

**Chemical structure:**

![Chemical Structure Image]

**Molecular Formula:** \( \text{C}_{27}\text{H}_{42}\text{O}_5 \)

**Pharmacological class / Application:** Steroidal saponin

**CAS-RN:** N/A

**International status:**

US: 5alpha-Hydroxy laxogenin 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-Hydroxy laxogenin is not listed in the CDSA. The substance is a derivative of laxogenin, a steroidal saponin found in the rhizomes of *Smilax sieboldii*\(^1\), and is marketed as a supplement for body building purposes. However, there are no reports in the scientific literature that this substance displays any anabolic activity. In addition, as 5alpha-hydroxy laxogenin is not an anabolic steroid nor a derivative of an anabolic steroid, it cannot be included under item 23 of Schedule IV to the CDSA.

\(^1\) Kubo, S et al. (1992) Steroidal saponins from the rhizomes of Smilax sieboldii, Phytochem. 31:2445-2450.
**Recommendation:** 5alpha-Hydroxy laxogenin is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** January 3, 2012