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

Substance:   I - Epiandrosterone beta-D-glucuronide
            II - Androsterone beta-D-glucuronide

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):

• Epiandrosterone beta-D-glucuronide and androsterone beta-D-glucuronide are metabolites of epiandrosterone and androsterone, respectively, and included under item 23 of Schedule IV to the CDSA.

Prepared by: ________________________________ Date: 15 Sept 2011
Evelyn Soo

Verified by: ________________________________ Date: __________
Mark Kozlowski

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:** I - Epiandrosterone beta-D-glucuronide  
II - Androsterone beta-D-glucuronide

**Drug Name Status:** I - Epiandrosterone beta-D-glucuronide  
II - Androsterone beta-D-glucuronide are the common names.

**Chemical Name:**  
I - (3beta,5alpha)-17-Oxoandrostan-3-yl beta-D-Glucopyranosiduronic acid  
II - (3alpha,5alpha)-17-Oxoandrostan-3-yl beta-D-Glucopyranosiduronic acid

**Other Names:**  
I - 17-Oxo-5alpha-androstan-3beta-yl beta-D-glucopyranosiduronic acid; 17-oxo-5alpha-androstan-3beta-yl beta-D-glucosiduronic acid; epiandrosterone glucuronide; 3beta-(beta-D-glycopyranurononosyloxy)-5alpha-androstan-17-one  
II - Androsterone 3-glucuronide; 17-Oxo-5alpha-androstan-3alpha-yl beta-D-glucopyranosiduronic acid; 3alpha-hydroxy-5alpha-androstan-17-one glucuronide; 5alpha-Androstan-3alpha-ol-17-one glucuronide; Androsterone glucosiduronate; androsterone glucuronoside; androsterone monglucosiduronate

**Chemical structure:**

![Chemical Structure](image)

**Molecular Formula:** I - C_{25}H_{38}O_{8}; II - C_{25}H_{38}O_{8}

**CAS-RN:** I - 4271-00-5; II - 1852-43-3

**Pharmacological class / Application:** Steroid derivatives

**International status:**  
US: Epiandrosterone beta-D-glucuronide and androsterone beta-D-glucuronide are not listed on the schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.
United Nations: The substances are 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: Epiandrosterone beta-D-glucuronide and androsterone beta-D-glucuronide are not listed specifically in the CDSA. However, they are metabolites of epiandrosterone and androsterone$^1$, respectively, and these substances were previously reviewed and included under the heading “Anabolic steroids and their derivatives” of item 23 of Schedule IV to the CDSA. As derivatives of the anabolic steroids epiandrosterone and androsterone, these substances must be included under item 23 of Schedule IV to the CDSA.

**Recommendation:** Epiandrosterone beta-D-glucuronide and androsterone beta-D-glucuronide are included under item 23 of Schedule IV to the CDSA and are controlled substances.

**Date:** Sept 15th, 2011

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