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

Substance: Estradiol-17beta-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):

- The substance has not been shown in the scientific literature to display anabolic activity, and is not included under item 23 of Schedule IV to the CDSA.

Prepared by: ___________________________ Date: August 17th 2011

Zack Li

Verified by: ___________________________ Date: __________

Mark Kozlowski

Approved by: ___________________________ Date: __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Eva Roig
Drug Status Report

**Drug:** Estradiol-17beta-glucuronide

**Drug Name Status:** Estradiol-17beta-glucuronide is the common name.

**Chemical Name:** beta-D-Glucopyranosiduronic acid, (17beta)-3-hydroxyestra-1,3,5(10)-trien-17-yl

**Other Names:** 17beta-Estradiol glucuronide; Oestradiol-17beta-glucuronide

**Chemical structure:**

![Chemical structure of Estradiol-17beta-glucuronide](image)

**Molecular Formula:** $C_{24}H_{32}O_8$

**Pharmacological class / Application:** Steroid

**CAS-RN:** 1806-98-0

**International status:**

US: Estradiol-17beta-glucuronide 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: Estradiol-17beta-glucuronide is not currently listed in the CDSA. The
substance is a metabolite of estradiol with no evidence of anabolic activity\textsuperscript{1}. Since estradiol-17beta-glucuronide is not an anabolic steroid and is not a derivative of an anabolic steroid, it cannot be included under the heading “Anabolic steroids and their derivatives:” of item 23 of Schedule IV to the CDSA.

**Recommendation:** Estradiol-17beta-glucuronide is not included under the Schedules to the CDSA and is not a controlled substance.

**Date:** 17 August 2011