



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

Substance: Cannabinol-O-glucuronide

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled [checked]
Not Controlled [unchecked]

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is metabolite of cannabiniol and included under sub-item 1(3) of Schedule II to the CDSA.

Prepared by: Evelyn Soo Date: Oct 20th 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: Wissam Sader

# Drug Status Report

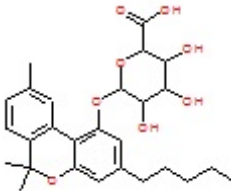
**Drug:** Cannabinol-O-glucuronide

**Drug Name Status:** Cannabinol-O-glucuronide is the common name

**Chemical Name:** 6,6,9-Trimethyl-3-pentyl-6H-dibenzo(b,d)pyran-1-yl-beta-D-Glucopyranosiduronic acid

**Other Names:** 3-n-amylyl-6,6,9-trimethyl-6-dibenzopyran-1-yl-beta-D-glucopyranosiduronic acid

**Chemical structure:**



**Molecular Formula:**  $C_{27}H_{34}O_8$

**Pharmacological class / Application:** Metabolite of cannabidiol

**CAS-RN:**

**International status:**

US: The substance is not listed specifically in the 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Cannabinol-O-glucuronide has been shown in the scientific literature to be a metabolite of cannabinol<sup>1</sup>, which is currently listed in the CDSA under item 2(3) of Schedule II to the CDSA, under the heading "Cannabis, its preparations, derivatives and similar synthetic preparations, including:". As a metabolite of cannabinol, it is included under item 2(3) of Schedule II by virtue of being a derivative of cannabinol.

**Recommendation:** Cannabinol-O-glucuronide is included under item 2(3) of Schedule II to the CDSA and is a controlled substance.

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<sup>1</sup>Lyle, MA *et al.* (1977) Synthesis and characterization of glucuronides of cannabinol, cannabidiol, d9-tetrahydrocannabinol and d8-tetrahydrocannabinol, *Biomed. Mass Spectrometr.* **4**:190-196.

**Date:** 20 October 2010