



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

Substance: I - 8beta-Hydroxy-delta(9)-tetrahydrocannabinol
II - 11-delta(9)-Tetrahydrocannabinol-9-carboxylate acyl-beta-D-glucuronide
III - 11-delta(9)-Tetrahydrocannabinol-9-carboxylic acid beta-D-glucuronide
IV - 11-Acetoxy-delta(9)-tetrahydrocannabinol

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 substances are metabolites of tetrahydrocannabinol and therefore are included under item I of Schedule II to the CDSA.

Prepared by: Evelyn Soo Date: Dec 8th 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: "third party information removed as per agreement with applicant"

## Drug Status Report

**Drug:** I - 8beta-Hydroxy-delta9-tetrahydrocannabinol

II - 11-delta(9)-Tetrahydrocannabinol-9-carboxylate acyl-beta-D-glucuronide

III - 11-delta(9)-Tetrahydrocannabinol-9-carboxylic acid beta-D-glucuronide

IV - 11-Acetoxy-delta(9)-tetrahydrocannabinol

### Drug Name Status:

I - 8beta-Hydroxy-delta(9)-tetrahydrocannabinol

II - delta(9)-Tetrahydrocannabinol-11-oic acid glucuronide

III - 11-delta(9)-Tetrahydrocannabinol-9-carboxylic acid beta-D-glucuronide

IV - 11-Acetoxy-delta(9)-tetrahydrocannabinol

### Chemical Name:

I - 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-6H-Dibenzo[b,d]pyran-1,8-diol (6aR(6aalpha, 8alpha,10abeta))-

II - 1-O-[(6a,10aR-6a,7,8,10a-Tetrahydro-1-hydroxy-6,6-dimethyl-3-pentyl-6H-dibenzo[b,d]pyran-9-yl]carbonyl]-beta-D-glucopyranoic acid

III -(6aR,10aR)-9-Carboxy-6a,7,8,10a-tetrahydro-6,6-dimethyl-3-pentyl-6H-dibenzo[b,d]pyran-1-yl-D-Glucopyranosiduronic acid

IV-(6aR-trans)-6a,7,10,10a-Tetrahydro-1-hydroxy-6,6-dimethyl-3-pentyl-6H-dibenzo[b,d]pyran-9- methanol -a-Acetate

### Other Names:

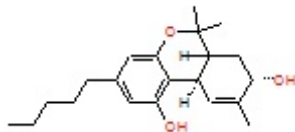
I - (6aR,8R,10aR)-6a,7,8,10a-Tetrahydro-6,6,9-trimethyl-3-pentyl-6H-dibenzo[b,d]pyran-1,8-diol;(-)-8beta-hydroxy-delta(9)-tetrahydrocannabinol; 8beta-hydroxy-delta(9)-THC;

II - THC-11-oic acid glucuronide

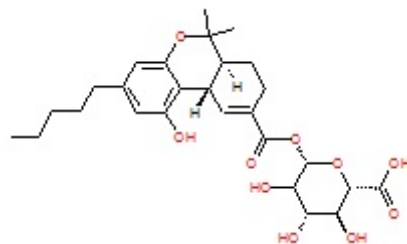
III - 11-Nor-9-tetrahydrocannabinol-9-carboxylic Acid -D-Glucuronide;11-nor-9-Tetrahydro Cannabinol-9-carboxylic Acid beta-D-Glucuronide

IV- NONE

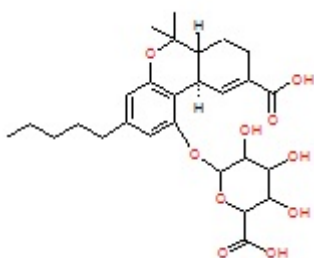
### Chemical structure:



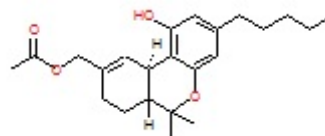
I



II



III



IV

**Molecular Formula:** I-C<sub>21</sub>H<sub>30</sub>O<sub>3</sub>; I-C<sub>27</sub>H<sub>36</sub>O<sub>10</sub>; III-C<sub>27</sub>H<sub>36</sub>O<sub>10</sub>; IV-C<sub>20</sub>H<sub>32</sub>O<sub>2</sub>

**Pharmacological class / Application:** Cannabinoid derivatives

**CAS-RN:** I - 34984-78-6; II - 76448-35-6; III - 36455-74-0; IV - none

**International status:**

US: 8beta-hydroxy-delta9-tetrahydrocannabinol, 11-delta(9)-tetrahydrocannabinol-9-carboxylate acyl-beta-D-glucuronide, 11-delta(9)-tetrahydrocannabinol-9-carboxylic acid beta-D-glucuronide, 11-acetoxy-delta(9)-tetrahydrocannabinol are not listed specifically in the US *Controlled Substances Act*.

United Nations: The substances are not listed specifically on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 8beta-hydroxy-delta9-tetrahydrocannabinol, 11-delta(9)-tetrahydrocannabinol-9-carboxylate acyl-beta-D-glucuronide, 11-delta(9)-tetrahydrocannabinol-9-carboxylic acid beta-D-glucuronide, 11-acetoxy-delta(9)-tetrahydrocannabinol are not currently listed in the CDSA.

However as metabolites of tetrahydrocannabinol, the substances are included under the heading "Cannabis, its preparations, derivatives and similar synthetic preparations" of item I of Schedule II to the CDSA, as derivatives of tetrahydrocannabinol.

**Recommendation:** 8beta-hydroxy-delta9-tetrahydrocannabinol, 11-delta(9)-tetrahydrocannabinol-9-carboxylate acyl-beta-D-glucuronide, 11-delta(9)-tetrahydrocannabinol-9-carboxylic acid beta-D-glucuronide, 11-acetoxy-delta(9)-tetrahydrocannabinol are included under item 1 of Schedule II to the CDSA and are controlled substances.

**Date:** 8 December 2010