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 ✔
Not Controlled □

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: ________________________________ Date: Dec 8th 2010
Evelyn Soo

Verified by: ________________________________ Date: __________
Marianne Tang

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 - 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(6alpha,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-glucopyranonic 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:**

![Chemical structure I](image1)

![Chemical structure II](image2)
Molecular Formula: I-C_{21}H_{30}O_3; I-C_{27}H_{36}O_{10}; III-C_{27}H_{36}O_{10}; IV-C_{20}H_{32}O_2

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