



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

Substance: Delta-1-tetrahydrocannabinol and Delta-6-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 naturally-occurring cannabinoids and therefore included under item 1 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

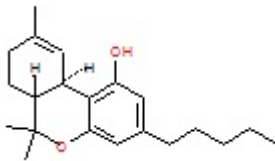
Drug: I - Delta-1-tetrahydrocannabinol
II - Delta-6-tetrahydrocannabinol

Drug Name Status: I - Delta-1-tetrahydrocannabinol
II - Delta6-Tetrahydrocannabinol are the common names.

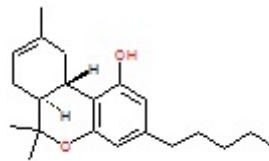
Chemical Name: I - 1-trans-delta-9-Tetrahydrocannabinol
II - 6H-Dibenzo(b,d)pyran-1-ol, 6a,7,10,10a-tetrahydro-3-pentyl-6,6,9-trimethyl-, trans(-)-

Other Names: I - 6H-Dibenzo(b,d)pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-, (6aR,10aR)-; Dronabinol; Delta-1-THC
II - Delta-6-THC

Chemical structure:



I



II

Molecular Formula: I - $C_{27}H_{34}O_8$; II - $C_{21}H_{30}O_2$

Pharmacological class / Application: Cannabinoids

CAS-RN: I - 1972-08-3; II - 5957-75-5

International status:

US: The substances are not listed specifically in the Controlled Substances Act and are not mentioned anywhere on the DEA website. However, these substances are likely to be controlled under the analogue provision of the CSA.

United Nations: The substance are 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: Delta-1-tetrahydrocannabinol and delta-6-tetrahydrocannabinol are naturally-

occurring cannabinoids of *Cannabis sativa* L.^{1, 2} and therefore are captured under the item heading ““Cannabis, its preparations, derivatives and similar synthetic preparations, including:” of item 1 of Schedule II to the CDSA.

Recommendation: Delta-1-tetrahydrocannabinol and delta-6-tetrahydrocannabinol are included under item 1 of Schedule II to the CDSA and are controlled substances.

Date: 20 October 2010

¹Szirmai, M and Halldin, MM. (1995) A urinary metabolite of d1-tetrahydrocannabinol. The first synthesis of 4",5"-bisnor-d1-tetrahydrocannabinol-7,3"-dioic acid, and a deuterium labelled analogue, *Bioorg. Med. Chem.* **3**:899-906.

²Mechoulam, R. et al. (1991) A random walk through a cannabis field, *Pharmacol. Biochem. Behaviour*, **40**:461-464.