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

Substance: JWH-213

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):

- It has not been established as to whether this substance is an efficacious cannabinoid receptor agonist and therefore it cannot included under item 1 of Schedule II to the CDSA.

Prepared by: ____________________________  Date: ____________
Vincent Marleau

Verified by: ____________________________  Date: ____________
Mark Kozlowski

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: JWH-213

Drug Name Status: JWH-213 is the common name.

Chemical Name: (4-ethyl-1-naphthalenyl)(2-methyl-1-pentyl-1H-indol-3-yl)-methanone

Chemical structure:

![Chemical Structure]

Molecular Formula: $C_{27}H_{29}NO$  CAS-RN: 824959-83-3

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: JWH-213 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: JWH-213 is not listed in the CDSA. The substance is a synthetic cannabinoid, which has been reported in the scientific literature to display very strong binding affinities for the CB$_1$ cannabinoid receptor (Ki= $71.5 \pm 0.2$ nM) and the CB$_2$ cannabinoid receptor (Ki= $0.42 \pm 0.05$ nM)."Cannabis, its preparations, derivative and similar synthetic preparations” are listed as item 1 in Schedule II to the CDSA. However, while JWH-213 has been reported to display a high binding affinity to both CB$_1$ and CB$_2$ receptors, there are presently no reports in the scientific literature on the efficacy of JWH-213 as a cannabinoid receptor agonist. Therefore, the substance cannot be included under Item 1 of Schedule II to the CDSA.

Recommendation: JWH-213 is not included under Item 1 of Schedule II to the CDSA and is not a controlled substance.

Date: March 24th, 2012.

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