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

Substance: JWH-080

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

- Controlled X
- Not Controlled □

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

- JWH-080 is an efficacious cannabinoid CB₁ receptor agonist and therefore is included under item 1 of Schedule II to the CDSA.

Prepared by: ________________________________ Date: 28th March 2012
Evelyn Soo

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-080

Drug Name Status: JWH-080 is the common name.

Chemical Name: (1-Butyl-1H-indol-3-yl)(4-methoxy-1-naphthalenyl)methanone

Chemical structure:

![Chemical Structure Image]

Molecular Formula: $C_{24}H_{23}NO_2$

Pharmacological class / Application: Synthetic Cannabinoid

CAS-RN: 210179-44-5

International status:

US: JWH-080 is not listed in the Schedules to the US Controlled Substances Act (CSA) 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-080 is not listed specifically in the Schedules to the CDSA. The substance is a synthetic cannabinoid, which has been reported in the scientific literature to display a strong binding affinity for the cannabinoid CB$_1$ receptor ($K_i = 7.6 \pm 1.0$ nM)$^1$. In addition, the substance has also been reported to be an efficacious cannabinoid receptor agonist in in vivo studies$^2$ and therefore is captured under the heading “Cannabis, its preparations, derivatives and similar synthetic preparations, including” of item 1 of Schedule II to the CDSA.

$^1$Aung, MM (2000) Influence of the N-1 alkyl chain length of cannabinimetic indoles upon CB1 and CB2 receptor binding, Drug and Alcohol Dependence, 60:133-140.

$^2$Huffman, JW. Cannabimimetic indoles, pyrroles, and indenes: Structure-activity relationships and receptor interactions. In: Reggio, PH. (Ed) The Cannabinoid Receptors, 2009, Humana Press, New Yark, NU, USA, pp49-94 (ED$_{50}$ μmol/kg: SA=7.8; TF=4.3; RT=2.4).
Recommendation: JWH-080 is included under item 1 of Schedule II to the CDSA and is a controlled substance.

Date: March 27th, 2012.