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

Substance: JWH-147

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 substance has not been shown to be an efficacious cannabinoid receptor agonist and therefore JWH-147 cannot be included under Item 1 of Schedule II to the CDSA

Prepared by: ___________________________ Date: May 17, 2011
Zack Li

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-147

Drug Name Status: JWH-147 is the common name.

Chemical Name: 1-Hexyl-2-phenyl-4-(1-naphthoyl)pyrrole

Chemical structure:

![Chemical structure of JWH-147]

Molecular Formula: C_{27}H_{27}NO

CAS RN: 914458-20-1

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: JWH-147 is not listed on 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-147 is one of several synthetic cannabimimetic substances that were synthesized and assessed for their affinities towards the CB₁ and CB₂ receptors\(^1\). “Cannabis, its preparations, derivative and similar synthetic preparations” are currently controlled under item 1

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of Schedule II to the CDSA. However, while JWH-147 has been reported to display a high binding affinity to both CB$_1$ and CB$_2$ receptors ($K_i$ of 11±1 and 7.1±0.2 respectively)\(^2\), there are presently no reports in the scientific literature on the efficacy of JWH-147 as a cannabinoid receptor agonist. Therefore, the substance cannot be included under Item I of Schedule II to the CDSA.

**Recommendation:** JWH-147 is not included in the Schedules to the CDSA and is not a controlled substance.

**Date:** May 17, 2011

\(^2\)Ibid