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

Substance:  
I- JWH-019 5-hydroxyhexyl metabolite  
II- JWH-019 6-hydroxyhexyl metabolite

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 JWH-019 and are included under item 1 of Schedule II to the CDSA.

Prepared by: ___________________________________________ Date: December 16th, 2011

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: I- JWH-019 5-hydroxyhexyl metabolite  
II- JWH-019 6-hydroxyhexyl metabolite

Drug Name Status: I- JWH-019 5-hydroxyhexyl metabolite  
II- JWH-019 6-hydroxyhexyl metabolite are the common names.

Chemical Name: I- (1-hexyl-5-hydroxy-1H-indol-3-yl)-2-(naphthalen-1-yl)methanone  
II- (1-(6-hydroxyhexyl)-1H-indol-3-yl)-2-(naphthalen-1-yl)methanone

Chemical structure:

[Chemical structure images]

Molecular Formula: I- C₂₅H₂₅NO₂; II- C₂₅H₂₅NO₂

CAS RN: I- N/A; II- N/A

Pharmacological class / Application: Metabolites of cannabinoid receptor agonists

International status:

US: JWH-019 5-hydroxyhexyl metabolite and JWH-019 6-hydroxyhexyl metabolite are not listed on the schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.

United Nations: The substances are 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-019 5-hydroxyhexyl metabolite and JWH-019 6-hydroxyhexyl metabolite are not currently listed in the Schedules to the CDSA. The substances are known to be derivatives of JWH-019, which has been reported in the literature to bind to both the cannabinoid CB₁ and CB₂ receptors, with a slightly higher affinity for the CB₂ receptor¹ and also

¹Aung, MM. et al. (2000) Influence of the N-1 alkyl chain length of cannabimimetic indoles upon CB1 and CB2 receptor binding, Drug Alcohol Dependence, 60:133-140.
been shown in animal studies to be an efficacious cannabinoid receptor agonist. Cannabinoid receptor agonists have been declared included under item 1 of Schedule II to the CDSA: “Cannabis, its preparations, derivatives and similar synthetic preparations, including”. Since JWH-019 5-hydroxyhexyl metabolite and JWH-019 6-hydroxyhexyl metabolite are derivatives of JWH-019, they are captured under item 1 of Schedule II to the CDSA and are considered controlled substances.

**Recommendation:** JWH-019 5-hydroxyhexyl metabolite and JWH-019 6-hydroxyhexyl metabolite are included under Item 1 of Schedule II to the CDSA and are controlled substances.

**Date:** December 16th, 2011

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