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

Substance: N-(2-Hydroxyethyl)-9-octadecenamide

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

- Controlled ☐
- Not Controlled X

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

- The substance is an endocannabinoid showing no cannabinoid receptor agonist activity and cannot be included under the Schedules to the CDSA.

Prepared by: _______________________________ Date: ________________

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: N-(2-Hydroxyethyl)-9-octadecenamide

Drug Name Status: N-(2-Hydroxyethyl)-9-octadecenamide is the common name.

Chemical Name: 9-Octadecenamide, N-(2-hydroxyethyl)-, (9Z)-

Other Names: OEA; oleylethanolamide, oleoyl monoethanolamide; oleamide MEA

Chemical structure:

Molecular Formula: \( \text{C}_{20}\text{H}_{39}\text{NO}_2 \)

Pharmacological class / Application: Endocannabinoid

CAS-RN: 111-58-0

International status:

US: N-(2-Hydroxyethyl)-9-octadecenamide 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: N-(2-Hydroxyethyl)-9-octadecenamide is not listed in the schedules to the CDSA. The substance is an endocannabinoid and in studies evaluating its satiety regulation, N-(2-Hydroxyethyl)-9-octadecenamide has not been found to demonstrate any agonist activity at the \( \text{CB}_1 \) or \( \text{CB}_2 \) receptors\(^1\). “Cannabis, its preparations, derivatives and similar synthetic preparations” are currently listed as item 1 in Schedule II to the CDSA. Given that N-(2-Hydroxyethyl)-9-octadecenamide does not demonstrate any cannabinoid receptor agonist activity, it cannot be included under item 1 of Schedule II to the CDSA

Recommendation: N-(2-Hydroxyethyl)-9-octadecenamide is not included in the Schedules to the CDSA and is not a controlled substance.

Date: May 29th, 2012.

\(^1\) Fu, J et al. (2003) Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-\( \alpha \), Nature. 425: 90-93