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

Substance: N-arachidonoyl-serotonin

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):

- There are no reports that the substance is an efficacious cannabinoid receptor agonist and therefore it cannot be included under item 1 of Schedule II 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-arachidonoyl-serotonin

Drug Name Status: N-arachidonoyl-serotonin is the common name.

Chemical Name: N-[2-(5-Hydroxy-1H-indol-3-yl)ethyl]-5,8,11,14-eicosatetraenamide

Other Names: AA-5-HT

Chemical structure:

Molecular Formula: C$_{30}$H$_{42}$N$_2$O$_2$  CAS-RN: 187947-37-1

Pharmacological class / Application: Endocannabinoid

International status:

US: N-arachidonoyl-serotonin 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-arachidonoyl-serotonin is not listed in the schedules to the CDSA. The substance is an endocannabinoid, which as been reported to be a TRPV$_1$ vanilloid receptor in studies evaluating its analgesic properties$^1$. There is presently no information in the scientific literature on the efficacy of N-arachidonoyl-serotonin as a cannabinoid receptor agonist. Therefore, N-arachidonoyl-serotonin cannot be included under the heading “Cannabis, its preparations, derivatives and similar synthetic preparations” of item 1 in Schedule II to the CDSA.

Recommendation: N-arachidonoyl-serotonin is not included in the Schedules to the CDSA and is not a controlled substance.

Date: June 5th, 2012.