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

Substance: RCS-4

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 reported in the scientific literature to be an efficient cannabinoid receptor agonist and therefore is not included under item 1 of Schedule II to the CDSA.

Prepared by: ____________________________ Date: Nov 3rd 2010

Evelyn C Soo

Verified by: ____________________________ Date: ____________

Marianne Tang

Approved by: ____________________________ Date: ____________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Valerie Belisle, CBSA
Drug Status Report

Drug: RCS-4

Drug Name Status: RCS-4 is the common name.

Chemical Name: ((4-Methoxyphenyl)(1-pentyl-1H-indol-3-yl)methanone)

Chemical Structure:

\[
\text{Chemical Structure Image}
\]

Molecular Formula: C_{21}H_{23}NO_2

CAS-RN: none

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: The substance is not listed specifically in the 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: RCS-4 is not currently listed in the Schedules to the CDSA. The substance has been reported by recreational users of the substance to be a component of “Spice” and related products\(^1\). However, there is at present no evidence of this in the scientific literature and no reports of RCS-4 as an efficacious cannabinoid receptor agonist. Cannabinoid receptor

agonists have been deemed to be included under item 1 of Schedule II to the CDSA, while cannabinoid receptor antagonists have been deemed excluded from item 1 of Schedule II to the CDSA. Since RCS-4 has not currently been established as an efficacious cannabinoid receptor agonist, the substance cannot be included under item 1 of Schedule II to the CDSA.

**Recommendation:** RCS-4 is not included in Schedule II to the CDSA and is not a controlled substance.

**Date:** November 3rd 2010
February 6th, 2012


EC50 (M) = 1.99 X10^-7
Emax (5) = 72 %

cf. "third party information removed as per agreement with applicant" personal communication)