



### 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: \_\_\_\_\_  
Evelyn C Soo

Date: Nov 3<sup>rd</sup> 2010

Verified by: \_\_\_\_\_  
Marianne Tang

Date: \_\_\_\_\_

Approved by: \_\_\_\_\_  
DIRECTOR, OFFICE OF CONTROLLED  
SUBSTANCES

Date: \_\_\_\_\_

**This status was requested by:** Valerie Belisle, CBSA

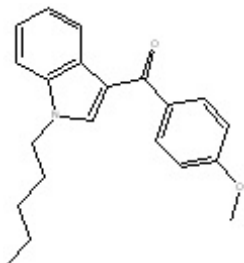
## Drug Status Report

**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:**



**Molecular Formula:** C<sub>21</sub>H<sub>23</sub>NO<sub>2</sub>

**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<sup>1</sup>. 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

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<sup>1</sup><http://www.articlesbase.com/medicine-articles/prohibition-of-jwhrcs-4-cannabines-not-worth-in-germany-3564632.html>

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 3<sup>rd</sup> 2010

February 6th, 2012

Nakajima J et al. Forensic Toxicol. (2011) 29:132-141.

EC50 (M) = 1.99 X10<sup>-7</sup>

E<sub>max</sub> (5) = 72 %

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