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

Substance: WIN 55,212-3

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 is an effective antagonist at the CB2 receptor and is not included under item 1 of Schedule II to the CDSA.

Prepared by: ________________________________ Date: October 25th 2010
Evelyn C Soo

Verified by: ________________________________ Date: _________________
Marianne Tang

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:** WIN 55,212-3

**Drug Name Status:** WIN 55,212-3 is the common name.

**Chemical Name:** (S)-(-)-[2,3-Dihydro-5-methyl-3-(4-morpholinylmethyl)pyrrolo[1,2,3-de]-1,4-benzoxazin-6-yl]-1-naphthalenylmethanone

**Chemical Structure:**

![Chemical Structure](image)

**Molecular Formula:** C_{27}H_{26}N_{2}O_{3}

**CAS-RN:** 131543-25-4

**Pharmacological class / Application:** Cannabinoid receptor antagonist

**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: WIN 55,212-3 is not currently listed in the Schedules to the CDSA. The substance is a synthetic cannabinoid and an isomer of the cannabinoid receptor agonist WIN 55,212-2. While WIN 55,212-2 has been reported to be an efficacious cannabinoid receptor agonist and deemed to be included under item 1 of Schedule II to the CDSA, WIN 55,212-3 has been shown in the scientific literature to be an efficacious antagonist at the cannabinoid...
CB$_2$ receptor$^1$. Cannabinoid receptor antagonists have been declared to fall outside the heading “Cannabis, its preparations, derivatives and similar synthetic preparations, including” of item 1 of Schedule II to the CDSA. Therefore, WIN 55,212-3 cannot be included under item 1 of Schedule II to the CDSA.

**Recommendation:** WIN 55,212-3 is not included in Schedule II to the CDSA and is not a controlled substance.

**Date:** October 28$^{\text{th}}$ 2010

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