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

Substance: (S)-Mecamylamine

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 not structurally similar to any of those included in the schedules to the CDSA.

Prepared by: ________________ Date: December 13th, 2011
Evelyn C Soo

Verified by: ________________ Date: __________
Mark Kozlowski

Approved by: ________________ Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Brigitte Mainville, OCS
Drug Status Report

**Drug:** (S)-Mecamylamine

**Drug Name Status:** (S)-Mecamylamine is the common name.

**Chemical Name:** (S)-N,2,3,3-tetramethyl-2-norbornanamine

**Other Names:** (2S)-N,2,3,3-tetramethyl-bicyclo(2.2.1)heptan-2-amine

**Chemical structure:**

\[ \text{Chemical structure image} \]

**Molecular Formula:** \( C_{11}H_{21}N \)

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

**CAS-RN:** 60-40-2

**International status:**

US: (S)-Mecamylamine is not listed in 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: (S)-Mecamylamine is not listed specifically in the CDSA. The substance has generally been used in the research setting to study the nicotinic acetylcholine receptors\(^1\) and has also has been evaluated as a potential drug in smoking cessation\(^2\) and treating neuropsychiatric


disorders such as Tourette’s syndrome and schizophrenia. The substance does not display structural similarity to any of the substances listed in the CDSA.

**Recommendation:** (S)-Mecamylamine is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** December 13th, 2011

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