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

Substance: 3’-Hydroxycotinine

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):

- 3’-Hydroxycotinine is a metabolite of nicotine and is not similar in structure to any substances listed in the CDSA.

Prepared by: ___________________________ Date: February 8th, 2012
Evelyn C Soo

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:** 3’-Hydroxycotinine

**Drug Name Status:** Hydroxycotinine is the common name.

**Chemical Name:** 3-Hydroxy-1-methyl-5-(3-pyridinyl)-2-pyrrolidinone

**Chemical structure:**

\[ \text{Chemical structure image} \]

**Molecular Formula:** C\(_{10}\)H\(_{21}\)N\(_2\)O\(_2\)

**Pharmacological class / Application:** Metabolite of nicotine

**CAS-RN:** 34834-67-8

**International status:**

US: 3’-Hydroxycotinine is not listed in the schedule 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: 3’-Hydroxycotinine is not listed in the schedules to the CDSA. The substance is a major metabolite of nicotine\(^1\), a naturally-occurring alkaloid of the tobacco plant and the compound responsible for the addictiveness of tobacco products. Nicotine is currently regulated under the *Tobacco Control Act* and its associated Regulations and is not considered a controlled substance. Additionally, 3-hydroxycotinine does not display any structural similarity to the substances listed in the CDSA.

**Recommendation:** 3’-Hydroxycotinine is not included in any of the Schedules to the CDSA and is not a controlled substance.

**Date:** February 8th, 2012.

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