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

Substance: Norecgonine Methyl Ester

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 ester of norecgonine and therefore is included under norecgonine as a derivative of cocaine and controlled under item 2(2) of Schedule I to the CDSA.

Prepared by: ___________________________ Date: Oct 19th 2010
Evelyn 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: Norecgonine methyl ester

Drug Name Status: Norecgonine methyl ester is the common name.

Chemical Name: (1R,2R,3S,5S)-3-hydroxy-8-azabicyclo[3.2.1]octane-2-carboxylic acid methyl ester; 1αH, 5αH-Nortropane-2β-carboxylic acid methyl ester; [1R-(exo,exo)-3-Hydroxy-8-Azabicyclo[3.2.1]octane-2-carboxylic acid methyl ester

Chemical structure:

![Chemical structure image]

Molecular Formula: C₉H₁₅NO₃

CAS-RN: 28393-47-7

Pharmacological class / Application: Derivative of cocaine

International status:

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Norecgonine methyl ester is not listed specifically in the CDSA. However, norecgonine is a minor urinary metabolite of both norcocaine¹ and cocaine². Cocaine is listed as sub-item 2 under item 2 of Schedule I to the CDSA, under the heading “Coca (Erythroxylon), its

¹Misra AL et al. (1976) Disposition and metabolism of 3Hcocaine in acutely and chronically treated dogs, Xenobiotica, 6:537-552.

preparations, derivatives, alkaloids and salts, including:”. An earlier review of norecgonine determined that substance was included under item 2(2) of Schedule I as a derivative of cocaine. According to the UN 1961 Convention on Narcotic Drugs, the inclusion of a substance as a narcotic extends to include the corresponding esters and ethers. Therefore, norecgonine methyl ester would also be included under norecgonine and controlled under item 2(2) of Schedule I to the CDSA.

**Recommendation:** Norecgonine methyl ester is included under item 2(2) of Schedule I to the CDSA and is a controlled substance.

**Date:** 19 October 2010