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## 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	$\checkmark$
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.

Date: Oct 19 <sup>th</sup> 2010
Date:
Date:

This status was requested by:"third party information removed as per agreement with applicant"

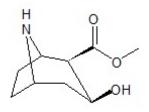
## Drug Status Report

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;  $1\alpha$ H,  $5\alpha$ H-Nortropane-2 $\beta$ -carboxylic acid methyl ester; [1R-(exo,exo)-3-Hydroxy-8-Azabicyclo[3.2.1]octane-2-carboxylic acid methyl ester

## **Chemical structure:**



Molecular Formula: C<sub>9</sub>H<sub>15</sub>NO<sub>3</sub>

**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 norcocaine<sup>1</sup> and cocaine<sup>2</sup>. Cocaine is listed as sub-item 2 under item 2 of Schedule I to the CDSA, under the heading "Coca (Erythroxylon), its

<sup>&</sup>lt;sup>1</sup>Misra AL et al. (1976) Disposition and metabolism of 3HCocaine in acutely and chronically treated dogs, Xenobiotica, 6:537-552.

<sup>&</sup>lt;sup>2</sup>Misra, AL. et al. (1976) Disposition and metabolism of [3H]cocaine 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