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

Substance: Northebaine

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

- Controlled X
- Not Controlled ☐

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is a metabolite of thebaine and is captured under sub-item 1(4) of Schedule I to the CDSA.

Prepared by: _______________________________ Date: _______________
Vincent Marleau

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 Name Status: Northebaine is the common name.

Chemical Name: (5α)-6,7,8,14-Tetradehydro-4,5-epoxy-3,6-dimethoxymorphinan

Other Names: Northebaine; (-)-Northebaine; N-Demethylthebaine; N-Northebaine; 17-Northebaine.

Chemical structure:

![Chemical Structure Image]

Molecular Formula: C_{18}H_{19}NO_{3}     CAS-RN: 2579-67-1

Pharmacological class / Application: Thebaine metabolite

International status:

US: Northebaine is not listed specifically in the Schedules 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: Northebaine is not listed specifically in the schedules to the CDSA. The substance is a metabolite of thebaine(paramorphine)\(^1\), which is captured under sub-item 1(4) of Schedule I to the CDSA under the heading “Opium Poppy (\textit{Papaver somniferum}), its preparations, derivatives, alkaloids and salts, including:”. As a derivative of thebaine, northebaine must be included under sub-item 1(4) of Schedule I. It is noteworthy to add that the substance contains the core structure of the morphinans and could also be captured under item 10 of Schedule I to the CDSA under the heading “Morphinans, their salts, derivatives and salts of derivatives including”.

Recommendation: Northebaine is included under sub-item 1(4) of Schedule I to the CDSA and is a controlled substance.

Date: August 3rd, 2012.