Health Canada
Santé Canada

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

Substance: Nordihydrocodeine

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 dihydrocodeine and must be included under item 1 of Schedule I to the CDSA.

Prepared by: _____ Date: _____
Zack Li

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

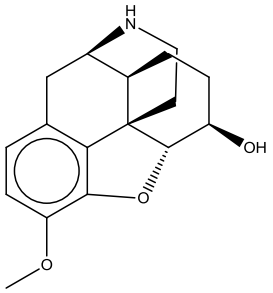
Drug: Nordihydrocodeine

Drug Name Status: Nordihydrocodeine is the common name.

Chemical Name: Morphinan-6-ol, 4,5-epoxy-3-methoxy-, (5alpha,6alpha)-

Other Names: (5alpha,6alpha)-4,5-Epoxy-3-methoxymorphinan-6-ol

Chemical structure:



Molecular Formula: $C_{17}H_{21}NO_3$ **CAS-RN:** 845-69-2

Pharmacological class / Application: Pharmaceutical-related substance

International status:

US: Nordihydrocodeine 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: Nordihydrocodeine is not listed specifically in the CDSA. The substance has been reported to be a metabolite of dihydrocodeine[1], which is listed as sub-item 1(11) "Dihydrocodeine (4,5-epoxy-3-methoxy-17-methylmorphinan-5-ol)" in Schedule I to the CDSA under the heading "Opium Poppy, its preparations, derivatives, alkaloids and salts". As a derivative of dihydrocodeine, nordihydrocodeine is captured under item 1 of Schedule I to the CDSA.

Recommendation: Nordihydrocodeine is included in item 1 of Schedule I to the CDSA and is a controlled substance.

Date: May 18th, 2012.

[1] Leppert, W. (2011) CYP2D6 in the metabolism of opioids for mild to moderate pain, Pharmacol. **87**:274-285.