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

Substance: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone

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 a derivative of thebaine, which is included under sub-item 1(4) of Schedule I to the CDSA.

Prepared by: ________________________________  Date: January 26th, 2012

Vincent Marleau

Verified by: ________________________________  Date: __________

Mark Kozlowski

Approved by: ________________________________  Date: __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Nacer Silarbi
Drug Status Report

Drug: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone

Drug Name Status: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone is the common name.

Chemical Name: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone

Other Names: dihydromethoxycodeinone;
(4R,4aS,5R,7aR,12bS)-4a,5-dihydroxy-9-methoxy-3-methyl-2,3,4,4a,5,6-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinolin-7(7aH)-one.

Chemical structure:

Molecular Formula: C_{18}H_{21}NO_{5}

Pharmacological class / Application: Thebaine derivative

CAS-RN: N/A

International status:

US: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone is not listed in the schedules to the Controlled Substances Act (CSA) and is not mentioned anywhere on the US 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: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone is not specifically listed in the schedules of the CDSA. The substance is derived from the oxidation of thebaine to form 14-hydroxycodeinone\(^1\). As a derivative of thebaine, which is listed as Sub-Item 1(4) of Schedule I to the CDSA under the heading “Opium Poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts, including:”, 8-alpha,14-Dihydroxy-7,8-dihydro codeinone must be included under Sub-Item 1(4) of Schedule I to the CDSA.

\(^1\) Chapman, R. Et al (2010). 8a,14-DIHYDROXY-7,8-DIHYDROCODEINONE. US Patent number: 20100152449.
Recommendation: 8-alpha,14-Dihydroxy-7,8-dihydro codeinone is included under Item 1 of Schedule I to the CDSA and is a controlled substance.

Date: January 26th, 2012