Drug Status Report

**Drug:** Dextrorphan related substances

(I) N-Desmethyl-Dextrorphan-D3  
(II) N-Desmethyl-Dextrorphan β-D-O Glucuronide -D3  
(III) N-Desmethyl-Dextrorphan β-D-O Glucuronide

**Drug Name Status:** The above names are common names.

**Chemical Name:**  
I - (9a,13a,14a)-Morphinan-3-ol-d3;  
II - (9a,13a,14a)-Morphinan-3-yl-d3 α-D-Glucopyranosiduronic acid  
III - (9a,13a,14a)-Morphinan-3-yl α-D-Glucopyranosiduronic acid

**Chemical structure:**

![Chemical structure images](image1.png)  
![Chemical structure images](image2.png)  
![Chemical structure images](image3.png)

**Molecular Formula:**  
(I) C_{16}H_{18}D_{3}NO_{3}  
(II) C_{22}H_{26}D_{3}NO_{3}  
(III) C_{22}H_{29}NO_{7}

**Pharmacological class / Application:** pharmaceutical related substance

**International status:**

US: The substances are not listed on the schedules to the CSA and are not mentioned on the DEA website.

United Nations: The substances are 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: Item 10 of Schedule I to the CDSA is, “Morphinans, their salts, derivatives and salts of derivatives.” Dextrorphan is excluded from this group by the “but not including” phrase and is subitem (11). Substance I is a morphinan and substances II and III are derivatives of morphinans. As these substances are not excluded from item 10 they are included.
Recommendation: Substances (I) to (III) are included in item 10 of Schedule I and are controlled substances.

February 5, 2009