Drug Status Report

**Drug**: Morphine-3-beta-D-glucuronide

**Drug Name Status**: Morphine-3-beta-D-glucuronide is the common name

**Chemical Name**: (5alpha,6alpha)-7,8-Didehydro-4,5-epoxy-6-hydroxy-17-methylmorphinan-3-yl beta-D-glucopyranosiduronic acid

**Chemical structure**:

![Chemical structure of Morphine-3-beta-D-glucuronide](image)

**Molecular Formula**: $C_{23}H_{27}NO_9$

**Pharmacological class / Application**: morphine derivative

**International status**:

US: The substance is not listed on the Schedules to the CSA; it is not mentioned on the DEA website. However, as morphine is listed on Schedule II to the CSA, the glucuronide derivative is likely also controlled.

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: Item 1 of Schedule I to the CDSA is, “Opium poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts including
(1) Opium
(2) Codeine (methylmorphine)
(3) Morphine (7,8-didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol)
(4) Thebaine (paramorphine)
and the salts, derivatives and salts of derivatives of the substances set out in subitems (1) to (4), including:”

Morphine-3-beta-D-glucuronide is a derivative of morphine.
Recommendation: Morphine-3-beta-D-glucuronide is included in the Schedule I to the CDSA and is a controlled substance.

March 15, 2008