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

Substance: Midazolam N-β-D-Glucuronide

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 metabolite of midazolam and contains the structural features of the benzodiazepines and therefore is included under item 18 of Schedule IV to the CDSA.

Prepared by: ___________________________ Date: 28 July 2010
Evelyn Soo

Verified by: ___________________________ Date: ____________
Marianne Tang

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:** Midazolam N-β-D-glucuronide

**Drug Name Status:** Midazolam N-β-D-glucuronide is a common name.

**Chemical Name:** 8-Chloro-6-(2-fluorophenyl)-2-β-D-glucopyranuronosyl-1-methyl-4H-imidazo[1,5-A][1,4]benzodiazepinium

**Chemical structure:**

![Chemical structure image]

**Molecular Formula:** C₂₄H₂₁ClFN₃O₆

**Pharmacological class / Application:** metabolite of midazolam

**CAS-RN:** 1033824-50-8

**International status:**

US: The substance is not listed specifically in the CSA 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Midazolam N-β-D-glucuronide is claimed to be a metabolite of midazolam, which is listed as sub-item 22.1 under item 18 of Schedule IV to the CDSA under the heading “Benzodiazepines, their salts and derivatives, including:”. With the exception of brotizolam, the benzodiazepines have a characteristic core structural feature, the two variations of which are shown below:

![Chemical structures]
As can be seen from its chemical structure, midazolam N-β-D-glucuronide also contains the core structure of the benzodiazepines and therefore the substance is included under item 18(22.1) of Schedule IV to the CDSA.

**Recommendation:** Midazolam N-β-D-glucuronide is 18(22.1) of Schedule IV to the CDSA and is considered a controlled substance.

**Date:** 27th July 2010