



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

Substance: Epinephrine 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 epinephrine and is not similar to any of those included in the CDSA.

Prepared by: \_\_\_\_\_ Date: Jan 18<sup>th</sup> 2011  
Evelyn Soo

Verified by: \_\_\_\_\_ Date: \_\_\_\_\_  
Marianne Tang

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

**This status was requested by:** Nacer Silarbi

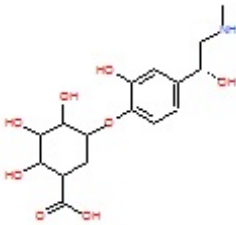
# Drug Status Report

**Drug:** Epinephrine glucuronide

**Drug Name Status:** Epinephrine glucuronide is the common name.

**Chemical Name:** 4-((1R)-1-hydroxy-2-(methylamino)ethyl)-1,2-benzenediol, 1-glucuronide

**Chemical structure:**



**Molecular Formula:**  $C_{16}H_{23}NO_8$

**CAS-RN:** unknown

**Pharmacological class / Application:** Pharmaceutical-related substance

**International status:**

US: Epinephrine glucuronide is not currently listed 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: Epinephrine glucuronide is not currently listed in the CDSA. The substance is a metabolite of epinephrine<sup>1</sup>, the status of which was reviewed earlier and which was determined not to be controlled under the CDSA. Given this, and that normetanephrine does not display any structural similarity to any of the substances included in the schedules to the CDSA, normetanephrine should not be included in any of the schedules to the CDSA.

**Recommendation:** Epinephrine glucuronide is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** 18 January 2011

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<sup>1</sup>Clark, WG. *et al.* (1974) Purification and properties of L-epinephrine glucuronide, *Azrneimittel-Forschung/Drug Res.* **24**:1769-1772.