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

Substance: 6-acetylmorphine 3-glucuronide

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

- Controlled  X
- Not Controlled  ☐

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is a derivative of diacetylmorphine and included under item 1 of Schedule I to the CDSA.

Prepared by: ___________________________ Date: ______________
Zack Li

Verified by: ___________________________ Date: ______________
Mark Kozlowski

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:** 6-acetylmorphine 3-glucuronide

**Drug Name Status:** 6-acetylmorphine 3-glucuronide is the common name.

**Chemical Name:** (2S,3S,4S,5R,6S)-6-(((4R,4aR,7S,7aR,12bS)-7-acetoxy-3-methyl-2,3,4,4a,7,7a-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinolin-9-yl)oxy)-3,4,5-trihydroxytetrahydro-2H-pyran-2-carboxylic acid

**Other Names:** Morphine 6-acetate 3-glucuronide; (5α,6α)-6-(Acetyloxy)-7,8-didehydro-4,5-epoxy-17-methylmorphinan-3-yl β-D-Glucopyranosiduronic Acid

**Chemical structure:**

![Chemical structure of 6-acetylmorphine 3-glucuronide](image)

**Molecular Formula:** C$_{25}$H$_{29}$NO$_{10}$

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

**CAS-RN:** 62299-26-7

**International status:**

US: 6-acetylmorphine 3-glucuronide is not listed specifically 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 Psychotrophic 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: 6-acetylmorphine 3-glucuronide is not listed specifically in the CDSA. The substance is reported in the scientific literature to be a urinary metabolite of diacetylmorphine\(^1\) which is listed as sub-item 1(10) of Schedule I under the heading “Opium Poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts, including:”. As a derivative of diacetylmorphine, 6-acetylmorphine 3-glucuronide must also be included under item 1 of Schedule I to the CDSA.

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**Recommendation:** 6-acetylmorphine 3-glucuronide is included in item 1 of Schedule I to the CDSA and is a controlled substance.

**Date:** June 13th, 2012.