Substance: para-Methylephedrine

**SECONDARY REVIEW**

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 has been reported in the scientific literature to be metabolite of mephedrone and therefore must be included under item 1 of Schedule III 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:** para-Methylephedrine

**Drug Name Status:** para-Methylephedrine is the common name.

**Chemical Name:** 2-(methylamino)-1-(4-methylphenyl)-propan-1-ol

**Other Names:** 4-methylephedrine

**Chemical structure:**

![Chemical structure image]

**Molecular Formula:** C_{12}H_{17}NO

**CAS-RN:** N/A

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

**International status:**

US: para-Methylephedrine is not 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: The status of para-methylephedrine was previously reviewed in December 2011 and at the time was deemed a derivative of ephedrine, which is currently listed as item 4 “Ephedrine (erythro-2-(methylamino)-1-phenylpropan-1-ol), its salts and any plant containing ephedrine or any of its salts” in Part 1 of Schedule VI to the CDSA. However, recent scientific studies have shown para-methylephedrine to also be a metabolite of mephedrone\(^1\). Mephedrone was previously reviewed and included in item 1 of Schedule III to the CDSA under the heading “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues including:”. As a metabolite of mephedrone, para-methylephedrine must also be included under item 1 of Schedule III to the CDSA.

**Recommendation:** para-Methylephedrine is included in item 1 of Schedule III to the CDSA and is a controlled substance.

**Date:** July 18th, 2012.

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