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

Substance: Ergometrinine

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):

- Ergometrinine is an isomer of ergometrine and therefore captured under item 5, Part 1 of Schedule VI to the CDSA.

Prepared by: _________________________________ Date: 29th March 2012
Evelyn Soo

Verified by: _________________________________ Date: ________________
Mark Kozlowski

Approved by: _________________________________ Date: ________________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Sultana Haïdar, OCS
Drug Status Report

**Drug:** Ergometrinine

**Drug Name Status:** Ergometrinine is the common name.

**Chemical Name:** 9,10-Didehydro-N-((S)-2-hydroxy-1-methylethyl)-6-methylergoline-8-alpha-carboxamide

**Other Names:** Ergobasinine; Ergonovinine; Isoergometrine

**Chemical structure:**

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\[ \text{Chemical structure image} \]
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**Molecular Formula:** $C_{19}H_{23}N_3O_2$

**Pharmacological class / Application:** Ergot Alkaloid

**CAS-RN:** 479-00-5

**International status:**

**US:** Ergometrinine is not listed in the Schedules to the US *Controlled Substances Act* (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, 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. However, ergometrine is listed in Table 1 of the Red List and according to the Convention, “all isomeric forms” of a substance listed in the Tables to the Red List are considered included.

**Canadian Status:** Ergometrinine is not listed specifically in the Schedules to the CDSA. The substance is an ergot alkaloid that is produced by *Claviceps purpurea*, a fungus which can be found on cereal grains\(^1\). Ergometrinine is also the biologically inactive isomer of ergometrine and inter-conversion between the two isomers can be readily achieved\(^2\). Ergometrine is

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currently listed as item 5 “Ergometrine (9,10-didehydro-N-(2-hydroxy-1-methylethyl)-6-methylergol-8-carboxamide) and its salts” in Part 1 of Schedule VI to the CDSA. The listing of ergometrine in the CDSA does not specify its stereochemistry and therefore all isomers of ergometrine are considered captured, which is consistent with the listing of ergometrine under the UN Convention. Accordingly, ergometrinine is considered to fall under item 5, Part 1 of Schedule VI to the CDSA. It is noteworthy that the earlier review of ergotaminine, an isomer of ergotamine, found the substance captured under item 6, Part 1 of Schedule VI to the CDSA.

**Recommendation:** Ergometrinine is included under item 1, Part 1 of Schedule VI to the CDSA and is a Class A precursor.

**Date:** March 29th, 2012.