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

Substance:  I - Ergocristine  
II - Ergokryptine  
III - Ergosine

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 substances are not listed in the Schedules to the CDSA and are not considered to belong to any family or group listed in the Schedules.

Prepared by: ___________________________ Date: June 20, 2011

Zack Li

Verified by: ___________________________ Date: __________

Mark Kozlowski

Approved by: ___________________________ Date: __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Brian Lin, DAS
Drug Status Report

**Drug:** I - Ergocristine  
II - Ergokryptine  
III - Ergosine

**Drug Name Status:** I - Ergocristine  
II - Ergokryptine  
III - Ergosine are the common names

**Chemical Name:**  
I - Ergotaman-3',6',18-trione, 12'-hydroxy-2'-(1-methylethyl)-5'-(phenylmethyl)-, (5'alpha)- (9CI)  
II - 12'-Hydroxy-2'-(1-methylethyl)-5'-alpha-(2-methylpropyl)ergotaman-3',6',18-trione  
III - Ergotaman-3',6',18-trione, 12'-hydroxy-2'- (1-methylethyl)-5'-alpha-(2-methylpropyl) - (9CI)

**Chemical structure:**  
[Chemical structure images for I, II, III]
**CAS RN:** I - 511-08-0; II - 511-09-1; III - 561-94-4

**Pharmacological class / Application:** Ergot alkaloids

**International status:**

US: Ergokryptine and ergosine are not listed on the schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website. Ergocristine was added to List 1 of the CSA and is controlled as a chemical precursor to LSD.

United Nations: The substances are 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: Ergocristine, ergokryptine and ergosine are not currently listed in the CDSA. The substances are ergot alkaloids and have been reported to be precursors in the synthesis of lysergic acid diethylamide (LSD)\(^1\)\(^2\), which is currently listed as item 5 in Schedule III to the CDSA. Ergometrine and ergotamine and their salts, are the only two ergot alkaloids that are listed in the CDSA, specifically as items 5 and 6 respectively in Part 1 of Schedule VI. However, as ergocristine, ergokryptine and ergosine are not salts of ergometrine or ergotamine, the substances cannot be included as Class A precursors under items 5 or 6 of Part I of Schedule VI to the CDSA. In addition, the substances do not fall under any of the other substances listed in the Schedules to the CDSA.

**Recommendation:** Ergocristine, ergokryptine and ergosine are not included in the Schedules to the CDSA and are not controlled substances.

**Date:** June 20, 2011

\(^1\)http://www.deadiversion.usdoj.gov/fed_regs/rules/2011/fr0331.htm
