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

Substance: Lysergic acid 2,4-dimethylazetidine tartrate

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

- Controlled ☐
- Not Controlled X

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

- The substance is a lysergic acid derivative and cannot be included in 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: Lysergic acid 2,4-dimethylazetidine tartrate

Drug Name Status: Lysergic acid 2,4-dimethylazetidine tartrate is the common name.

Chemical Name: ((2S,4S)-2,4-dimethylazetidin-1-yl)((6aR,9R)-7-methyl-4,6,6a,7,8,9,10,10a-octahydroindolo[4,3-fg]quinolin-9-yl) methanone, 2,3-dihydroxysuccinate salt

Other Names: LSZ tartrate; lysergic acid 2,4-dimethylazetidide tartrate; (8β)-8- {[(2S,4S)- 2,4-dimethylazetidin- 1-yl] carbonyl} - 6-methyl- 9,10- didehydroergoline tartrate

Chemical structure:

![Chemical Structure Image]

Molecular Formula: C_{25}H_{31}N_{3}O_{7}

Pharmacological class / Application: Pharmaceutical-related substance

CAS-RN: 470666-32-1

International status:

US: Lysergic acid 2,4-dimethylazetidine tartrate 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 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: Lysergic acid 2,4-dimethylazetidine tartrate is not listed in the schedules to the CDSA. The substance is a derivative of lysergic acid and a constrained analogue of lysergic acid diethylamide (LSD).\(^1\) Lysergic acid is currently listed as item 8 in part 1 of Schedule VI to the CDSA under the heading “Lysergic acid (9,10-didehydro-6-methylergoline-8-carboxylic acid)

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\(^1\) Nichols, DE et al (2002). Lysergamides of isomeric 2,4-dimethylazetidines map the binding orientation of diethylamide moiety in the potent hallucinogenic agent NN-diethlylysergamide (LSD). J. Med. Chem. 45:4344-4349
and its salts”, while lysergic acid diethylamide is currently listed as item 5 in Schedule III to the CDSA under the heading “Lysergic acid diethylamide (LSD) (N,N-diethyllysergamide) and any salt thereof”. As lysergic acid 2,4-dimethylazetidine tartrate is not a salt of lysergic acid or LSD, it cannot be included under the Schedules to the CDSA.

**Recommendation:** Lysergic acid 2,4-dimethylazetidine tartrate is not included in the Schedules to the CDSA and is not a controlled substance.

**Date:** June 14th, 2012.