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

Substance: D-AP5

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 not similar in structure to any of those included in the schedules to the CDSA.

Prepared by: ___________________________________________ Date: ________________

Evelyn C Soo

Verified by: ___________________________________________ Date: ________________

Mark Kozlowski

Approved by: ___________________________________________ Date: ________________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Tanya Arcand, OCS
Drug Status Report

**Drug:** D-AP5

**Drug Name Status:** D-AP5 is the common name.

**Chemical Name:** D-(-)-2-Amino-5-phosphonopentanoic acid

**Other Names:** D-APV; 2-APV; (2R)-Amino-5-phosphonovaleric acid; 5-Phosphono-D-norvaline

**Chemical structure:**

![Chemical structure of D-AP5]

**Molecular Formula:** C$_5$H$_{12}$NO$_5$P

**CAS-RN:** 79055-68-8

**Pharmacological class / Application:** NMDA antagonist

**International status:**

US: D-AP5 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: D-AP5 is not listed in the schedules to the CDSA. The substance has been reported in the scientific literature to be a competitive antagonist of N-methyl-D-aspartate (NMDA)$^{1}$ and is not structurally similar to any of the substances listed in the CDSA.

**Recommendation:** D-AP5 is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** April 23rd, 2012.

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