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

Substance: Aildenafil

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):

- Aildenafil is an analogue of sildenafil (Viagra) and is typically found in nutritional supplements marketed for sexual enhancement. The substance does not display any structural similarity to the substances included in the Schedules 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: Marnie Burr, HC
Drug Status Report

**Drug:** Aildenafil

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

**Chemical Name:** $1-\left[\{3-(6,7\text{-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo}[4,3-d]\text{-primidin-5-yl})-4\text{-ethoxyphenyl}\}\text{ sulfonyl}\right]\text{-cis-3,5-dimethylpiperazine}

**Other Names:** Dimethylsildenafil; methisosildenafil

**Chemical structure:**

![Chemical structure](image)

**Molecular Formula:** $\text{C}_{23}\text{H}_{32}\text{N}_{6}\text{O}_{4}\text{S}$  
**CAS-RN:** 496835-35-9

**Pharmacological class / Application:** Phosphodiesterase inhibitor

**International status:**

US: Aildenafil 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: Aildenafil is not listed specifically in the CDSA. The substance is an analogue of sildenafil (Vigra) and has been found in nutritional supplements marketed for the enhancement of sexual function. While sildenafil is regulated as a Schedule F drug under the *Food and Drugs Regulations*, aildenafil is not approved for sale in Canada. However, aildenafil does not display any structural similarities to the substances included in the CDSA and therefore cannot be included under the Schedules to the CDSA.

**Recommendation:** Aildenafil is not included in the Schedules to the CDSA and is not a controlled substance.

**Date:** July 12th, 2012.

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