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

Substance:  
I - (-)-Deprenyl N-Oxide  
II - (-)-N-Demethyl Deprenyl

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 metabolites of deprenyl (selegiline), which is regulated as a Schedule F drug under the *Food and Drugs Regulations*.

Prepared by: ___________________________  Date: April 18th 2011

Evelyn Soo

Verified by: ___________________________  Date: __________

Kim Barber

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:  I - (-)-Deprenyl N-Oxide  
       II - (-)-N-Desmethyl Deprenyl

Drug Name Status:  I - (-)-Deprenyl N-Oxide  
                   II - (-)-N-Desmethyl Deprenyl are the common name.

Chemical Name:  I - (αR)-N,α-Dimethyl-N-2-propynylbenzene N-xside  
                II - N-((2R)-1-Phenylpropan-2-yl)prop-2-yn-1-amine

Chemical structure:

\[ \text{I} \quad \text{II} \]

Molecular Formula:  I - C_{13}H_{17}NO; II - C_{12}H_{15}N

Pharmacological class / Application: Pharmaceutical-related substances

CAS-RN:  I - 366462-61-5; II - 56862-28-3

International status:

US: (-)-Deprenyl N-oxide and (-)-N-desmethyl deprenyl are not listed in the Controlled Substances Act and are not mentioned anywhere on the DEA website.

United Nations: The substances are not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: (-)-Deprenyl N-oxide and (-)-N-desmethyl deprenyl are not listed in the schedules to the CDSA. The substances are metabolites of l-deprenyl which is a propargylamine drug used for the treatment of Parkinson’s disease\(^1\) and more commonly known as selegiline. Selegiline is not listed in the CDSA but is currently regulated as a Schedule F drug under the Food and Drugs Regulations. As metabolites of deprenyl (selegiline), these substances are not included under the Schedules to the CDSA.

Recommendation: (-)-Deprenyl N-oxide and (-)-N-desmethyl deprenyl are not included in the

schedules to the CDSA and are not controlled substances.

Date: 18 April 2011