



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

Substance: Erythro-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetic acid hydrochloride

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):

- Methylphenidate is included in Schedule III as item 2, "Methylphenidate (a-Phenyl-2-piperidineacetic acid methyl ester) and any salt thereof.
- The substance is not a salt of methylphenidate

Supporting document(s) attached:

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
SHEREEN KHAN

Verified by: See email Date: \_\_\_\_\_  
MICHAEL LEBELLE

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

## Drug Status Report

**Drug:** Methylphenidate related substances

erythro-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetic acid hydrochloride (I)

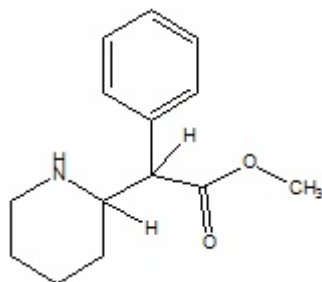
erythro-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetamide (II)

threo-a-Phenyl-a-piperidyl-(2)-acetic acid hydrochloride (III)

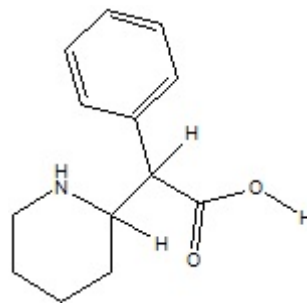
threo-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetamide (IV)

**Drug Name Status:** All of the above names are chemical names

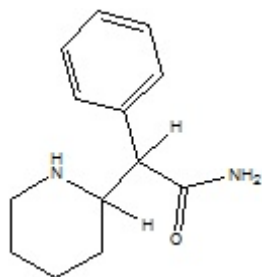
**Chemical structure:**



Methylphenidate



I and III



II and IV

**Molecular Formula:** C<sub>13</sub>H<sub>17</sub>NO<sub>2</sub> (I and III)

C<sub>13</sub>H<sub>18</sub>N<sub>2</sub>O (II and IV)

**Pharmacological class / Application:** methylphenidate related compound

**International status:**

US: These chemicals are not currently listed on the US Controlled Substances Act and are not mentioned on the DEA website.

United Nations: The chemicals 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: Methylphenidate is included in Schedule III as item 2, "Methylphenidate (α-Phenyl-2-piperidineacetic acid methyl ester) and any salt thereof." Compounds I - IV are related to methylphenidate from a pharmaceutical perspective. They may be degradation products of methylphenidate or synthetically related compounds. The four substances are not salts of methylphenidate. The stereochemical designations of the substances - threo and erythro - are irrelevant to their status.

Recommendation: Substances I to IV are not included in the schedules to the CDSA and are not controlled substances.

February 9, 2006