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

Substance: I- N-Methyl-2-piperidinemethanol-d5  
II- N-Methyl-2-piperidinemethyl chloride  
III- N-(N-Methylpiperidinyl)methylindole

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 precursors in the synthesis of AM-2233 and are not captured under item 1 of Schedule II to the CDSA.

Prepared by: ____________________________  Date: ______________
Vincent Marleau

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:**
I- N-Methyl-2-piperidinemethanol-d5  
II- N-Methyl-2-piperidinemethyl chloride  
III- N-(N-Methylpiperidinyl)methylindole  

**Drug Name Status:**  
I- N-Methyl-2-piperidinemethanol-d5  
II- N-Methyl-2-piperidinemethyl chloride  
III- N-(N-Methylpiperidinyl)methylindole are the common names.  

**Chemical Name:**  
I- N-Methyl-2-piperidinemethanol-d5  
II- N-Methyl-2-piperidinemethyl chloride  
III- N-(N-Methylpiperidinyl)methylindole  

**Other Names:**  
I- (1-Methyl-2-piperidyl)methanol-d5; (1-Methylpiperidin-2-yl)methanol-d5; (±)-2-Hydroxymethyl-1-methylpiperidine-d5; 1-Methyl-2-piperidinemethanol-d5; 2-Hydroxymethyl-1-methylpiperidine-d5; 2-Hydroxymethyl-N-methylpiperidine-d5; NSC 45464-d5.  
II- 1-Methyl-2-chloromethylpiperidine; 2-Chloromethyl-1-methylpiperidine.  
III- 1-((1-Methylpiperidin-2-yl)Methyl)-1H-indole.  

**Chemical structure:**  

I  
II  
III  

**Molecular Formula:**  
I- C$_7$H$_{10}$D$_5$NO; II- C$_7$H$_9$D$_5$ClN; II- C$_{15}$H$_{15}$D$_5$N$_2$  

**Pharmacological class / Application:**  
Pharmaceutical-related substances  

**CAS-RN:**  
I- N/A; II- 49665-74-9; III- 137641-68-0  

**International status:**  
US: N-Methyl-2-piperidinemethanol-d5, N-methyl-2-piperidinemethyl chloride and N-(N-methylpiperidinyl)methylindole are not listed specifically in the Schedules to the US *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, 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: N-Methyl-2-piperidinemethanol-d5, N-methyl-2-piperidinemethyl chloride and N-(N-methylpiperidinyl)methylindole are not listed in the Schedules to the CDSA. The substances are precursors in the synthesis of AM-2233, which was previously reviewed and considered captured under item 1 of Schedule II to the CDSA as an efficient cannabinoid receptor agonist¹. However, as these substances are not cannabinoid receptor agonists and are not structurally similar to any other substances listed in the CDSA, they are captured under the existing schedules to the CDSA.

**Recommendation:** N-Methyl-2-piperidinemethanol-d5, N-methyl-2-piperidinemethyl chloride and N-(N-methylpiperidinyl)methylindole are not included in the schedules to the CDSA and are not controlled substances.

**Date:** November 5th, 2012.

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