



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

Substance: 4-hydroxyphenylacetone and 4-hydroxyphenylacetone-d5

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):

- 4-hydroxyphenylacetone and 4-hydroxyphenylacetone-d5 are not similar to any of the substances included in the Schedules to the CDSA.

Prepared by: \_\_\_\_\_ Date: Sept 21<sup>st</sup> 2010  
Evelyn C Soo

Verified by: \_\_\_\_\_ Date: \_\_\_\_\_  
Marianne Tang

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 - 4-hydroxyphenylacetone  
II - 4-hydroxyphenylacetone-d5

**Drug Name Status:** I - 4-hydroxyphenylacetone  
II - 4-hydroxyphenylacetone-d5 are the common names.

**Chemical Name:** I - 1-(4-Hydroxyphenyl)-2-propanone  
II - 1-(4-Hydroxyphenyl)-2-propanone-d5

**Chemical Structure:**



**Molecular Formula:** I - C<sub>9</sub>H<sub>10</sub>O<sub>2</sub>; II - C<sub>9</sub>H<sub>5</sub>D<sub>5</sub>O<sub>2</sub>

**CAS-RN:** I - 770-39-8

**Pharmacological class / Application:** Fine Chemical

**International status:**

US: The substances are not listed specifically in the CSA 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: 4-hydroxyphenylacetone and 4-hydroxyphenylacetone-d5 are starting materials in the chemical synthesis of p-hydroxy benzphetamine and its deuterated derivative. The substances are not currently listed in the CDSA and are not structurally similar to any of the substances included in the schedules to the CDSA.

**Recommendation:** 4-hydroxyphenylacetone and 4-hydroxyphenylacetone-d5 are not included in the Schedules to the CDSA and are not controlled substances.

**Date:** September 21<sup>st</sup> 2010