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

Substance: 5-Hydroxy barbituric acid

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled X
Not Controlled ☐

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is a barbiturate and therefore included under item 1 of Schedule IV 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: 5-Hydroxy barbituric acid

Drug Name Status: 5-Hydroxy barbituric acid is the common name.

Chemical Name: 5-Hydroxy-2,4,6(1H,3H,5H)-pyrimidinetrione

Chemical structure:

\[
\begin{align*}
\text{R}_1 & \quad \text{R}_2 \\
\text{R}_3 & \quad \text{R}_4 \\
\end{align*}
\]

Molecular Formula: C₄H₄N₂O₄

Pharmacological class/Application: Barbiturate

CAS-RN: 444-15-5

International status:

US: 5-Hydroxy barbituric acid 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: 5-Hydroxy barbituric acid is not listed specifically in the CDSA. However, on the basis of its chemical structure, the substance is considered to be a member of the barbiturate family since it contains the characteristic root structure of the barbiturates as shown below:

where R₁, R₂, R₃, and R₄ are various chemical substituents that differentiate the barbiturates, and where the R groups in the case of barbituric acid are hydrogen (H). Accordingly, 5-Hydroxy barbituric acid is captured under Item 1 of Schedule IV to the CDSA, under the heading “Barbiturates, their salts and derivatives including.”.
Recommendation:  5-Hydroxy barbituric acid is included under item 1 of Schedule IV to the CDSA and is a controlled substance.

Date: October 5th, 2012.