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

Substance: Piperazine-N,N’-bis(2-ethanesulfonic acid)

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 substance is not similar to any of the substances included in the Schedules to the CDSA.

Prepared by: ____________________________ Date: June 23, 2011
Zack Li

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:** Piperazine-N,N’-bis(2-ethanesulfonic acid)

**Drug Name Status:** PIPES is the common name.

**Chemical Name:** 1,4-Piperazinediethanesulfonic acid

**Other Names:** 2,2’-(Piperazine-1,4-diyl)bis(ethanesulphonic acid)

**Chemical structure:**

![Chemical structure of Piperazine-N,N’-bis(2-ethanesulfonic acid)](image)

**CAS RN:** 5625-37-6; 10010-67-0 - HCl

**Molecular Formula:** $C_8H_{18}N_2O_2S_2$

**Pharmacological class / Application:** Fine chemical

**International status:**

US: The substance is not currently listed on the schedules to the US Controlled Substances Act and is not mentioned 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: Piperazine-N,N’-bis(2-ethanesulfonic acid) is not currently listed in the CDSA. The substance is widely used as a buffer, for example to achieve sample stacking in capillary electrophoresis applications. The substance is not similar to any of those included in the schedules to the CDSA.

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Recommendation: Piperazine-N,N’-bis(2-ethanesulfonic acid) is not included in the schedules to the CDSA and is not a controlled substance.

Date: June 23, 2011