Health Canada Santé Canada

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

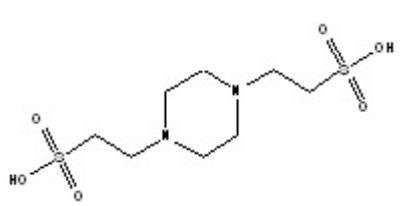
Drug: Piperazine-N,N'-bis(2-ethanesulfonic acid)

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:



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[1]. The substance is not similar to any of those included in the schedules to the CDSA.

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[1]Soo, EC. et al. (2004) Selective detection and identification of sugar nucleotides by CE-Electrospray-MS and its application to bacterial metabolomics, Anal. Chem. **76**:619-626.

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