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

Substance: Norfenfluramine

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

- Controlled

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

- The substance is an amphetamine and captured under item I of Schedule III to the CDSA.

Prepared by: ________________________ Date: July 5, 2011
Zack Li

Verified by: ________________________ Date: __________
Mark Kozlowski

Approved by: ________________________ Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: ADMO
Drug Status Report

**Drug:** Norfenfluramine

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

**Chemical Name:** alpha-Methyl-3-(trifluoromethyl)benzeneethanamine

**Other Names:** 1-(3-(Trifluoromethyl)phenyl)-2-propanamine; 1-(3-(Trifluoromethylphenyl)-2-aminopropane; 1-(m-Trifluoromethylphenyl)-2-aminopropane; alpha-Methyl-3-trifluoromethylphenethylamine; 3-Trifluoromethylamphetamine

**Chemical Structure:**

Norfenfluramine

Amphetamine

**Molecular Formula:** \(C_{10}H_{12}F_3N\)

**CAS-RN:** 1886-26-6

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

**International status:**

US: Norfenfluramine is not currently listed in the Schedules to the US *Controlled Substances Act*. However, it may be considered controlled due to the “controlled substances analogue” provision of the CSA.

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: Norfenfluramine is not currently listed in the CDSA. The substance is the
major, active metabolite of fenfluramine\textsuperscript{1}, an amphetamine analogue which was developed as an appetite suppressant drug\textsuperscript{2} and currently regulated under Schedule F to the \textit{Food and Drugs Regulations} (FDR). While norfenfluramine is an active metabolite of fenfluramine, it is not regulated under Schedule F to the FDR. However, as shown in the diagram above, norfenfluramine is structurally an amphetamine and therefore is captured under the heading “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues including” of item 1 of Schedule III to the CDSA.

**Recommendation:** Norfenfluramine is included under item 1 of Schedule III to the CDSA and is a controlled substance.

**Date:** July 5, 2011


\textsuperscript{2}McCann, UD. et al. (2007) Quantitative positron emission tomography studies of the serotonin transporter in humans previously treated with the appetite suppressants fenfluramine or dexfenfluramine, Mol. Imaging. Biol. \textbf{9}:151-157.