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

Substance:  Acetylcarnitine

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

- Controlled       □
- Not Controlled   X

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

- Acetylcarnitine is not similar to any substance listed on the schedules to the CDSA.

Supporting document attached: Drug Status Report by Mr. LeBelle

Prepared by:             Date:  Sept. 28, 2006
                          Xiao Peng Feng

Drug Status Report by:  Mr. M. LeBelle  Date:  Sept. 27, 2006

Approved by:            Date:  
                          DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES
Drug Status Report

**Drug:** Acetylcarnitine

**Drug Name Status:** Acetylcarnitine is the common name

**Chemical Name:** 2-(Acetyloxy)-3-carboxy-N,N,N-trimethyl-1-propanaminium inner salt

**Chemical structure:**

![Chemical structure of Acetylcarnitine](image)

Acetylcarnitine has one chiral (optically active) centre so it exists as two enantiomeric isomers which can be designated (+) and (-).

**Molecular Formula:** C₉H₁₇NO₄

**Pharmacological class / Application:** Nootropic (purported to boost brain function)

**International status:**

US: The substance is not 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 drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Acetylcarnitine is not similar to any substance listed on the schedules to the CDSA.

Recommendation: Acetylcarnitine is not included in the schedules to the CDSA and is not a controlled substance.

September 27, 2006