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

Substance:  
I - Lithium carbonate  
II - Lithium nitrate

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 substances are not similar to any of the substances listed in the schedules to the CDSA

Prepared by: ___________________________ Date: May 10, 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:** I - Lithium carbonate  
II- Lithium nitrate

**Drug Name Status:**  
I - Lithium carbonate  
II - Lithium nitrate are the common names.

**Chemical Name:**  
I - Lithium carbonate  
II - Lithium nitrate

**Other Names:**  
I - Carbonic acid, lithium salt; carbonic acid; diliium slat; Carbolith; Duralith; Eskalith; Lithane; Lithobid; Lithonate  
II - Nitric acid, lithium salt

**Chemical structure:**

I  

\[
\begin{array}{c}
\text{Li}^+ \ \text{O} \ \text{C} = \text{O} \ \text{Li}^+ \\
\cdot \text{O} \ \cdot \\
\end{array}
\]

II  

\[
\begin{array}{c}
\text{N}^+ \ \text{Li}^+ \\
\cdot \text{O} \ \cdot \\
\end{array}
\]

**Molecular Formula:**  
I - Li₂CO₃; II - LiNO₃

**Pharmacological class / Application:** Lithium salts

**CAS-RN:**  
I - 554-13-2; II- 7790-69-4

**International status:**

US: Lithium carbonate and lithium nitrate are not listed on the schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.

United Nations: The substances are 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:  Lithium carbonate and lithium nitrate are both salts of lithium and are not listed in the Schedules to the CDSA. Lithium carbonate is used for the treatment of neurological disorders such as manic episodes in bipolar disorder\(^1\) but also has industrial applications, such as its use as an admixture in concrete to reduce expansion and cracks\(^2\). Lithium nitrate is used primarily in industry, for example, in the repair of ASR (alkali-silica reaction) affected concrete\(^3\).

It is noteworthy that lithium and its salts are also currently regulated under Schedule F to the Food and Drugs Regulations.

**Recommendation:** Lithium carbonate and lithium nitrate are not included in the Schedules to the CDSA and are not controlled substances.

**Date:** May 10th, 2011

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