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

Substance:
I- (R)(+)-2-Amino-3-phenylpropanol
II- (R)(+)-N-(Benzyloxycarbonyl)-2-amino-3-phenylpropanol
III- (R)(+)-N-(Benzyloxycarbonyl)-2-amino-3-phenylpropanol p-toluenesulphonate

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):

- The substances are not structurally similar to any of the substances listed in the schedules to the CDSA.

Prepared by: ____________________________ Date: _________________
Evelyn C Soo

Verified by: ____________________________ Date: _________________
Mark Kozlowski

Approved by: ____________________________ Date: _________________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Ronald RA. Angus, QPIC
Drug Status Report

Drug: I - (R)-(+) - 2-Amino-3-phenylpropanol
   II- (R)-(+) - N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol
   III- (R)-(+) - N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol p-toluenesulphonate

Drug Name Status:
I - (D)-(++) - Phenylalaninol
II- (R)-(++) - N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol
III- (R)-(++) - N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol p-toluenesulphonate are the common names.

Chemical Name:
I- (R)- beta - Amino - benzenepropanol
II- (R)-(+)- Benzyl(1-hydroxy-3-phenylpropan-2-yl) carbamate
III- (R)-(++)-2-(((Benzyloxy)carbonyl) amino)-3-phenylpropyl 4-methylbenzenesulphonate

Chemical structure:

Molecular Formula: I- C_{9}H_{13}NO; II- C_{17}H_{19}NO_{3}; III- C_{24}H_{25}NO_{5}S

Pharmacological class / Application: Fine chemicals

CAS-RN: I- 5267-64-1; II-, II- unknown

International status:
US: (R)-(++)-2-Amino-3-phenylpropanol, (R)-(++)-N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol and (R)-(++)-N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol p-toluenesulphonate are not listed specifically in 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: (R)-(+)2-Amino-3-phenylpropanol, (R)-(+)N-(Benzyloxy carbonyl)-2-amino-3-phenyl propanol and (R)-(+)N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol p-toluenesulphonate are not listed in the Schedules to the CDSA. The substances have been reported to be intermediates in the synthesis of d-amphetamine and methamphetamine\(^1\) but are not captured under Schedule VI to the CDSA. Also, the substances are not substantially similar in structure to any of the substances included in the other Schedules to the CDSA.

**Recommendation:** (R)-(+)2-Amino-3-phenylpropanol, (R)-(+)N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol and (R)-(+)N-(Benzyloxy carbonyl)-2-amino-3-phenylpropanol p-toluenesulphonate are not included in the schedules to the CDSA and are not controlled substances.

**Date:** November 29\(^{th}\), 2012.

\(^1\) http://www.erowid.org/archive/rhodium/chemistry/amph.phenylalanine.html