



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

Substance: Aconitine

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 found in the root of the *Aconitum* species (Ranunculaceae) and is not similar in structure to any of the substances listed in the CDSA.

Prepared by: _____ Date: Nov 10th 2010
Evelyn Soo

Verified by: _____ Date: _____
Marianne Tang

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

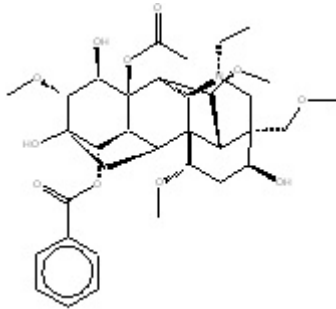
Drug: Aconitine

Drug Name Status: Aconitine is the common name.

Chemical Name: Aconitane-3,8,13,14,15-pentol, 20-ethyl-1,6,16-trimethoxy-4-(methoxymethyl)-, 8-acetate 14-benzoate, (1 α , 3 α , 6 α , 14 α , 15 α , 16 β)-

Other Names: Aconitin, Aconitinum, Aconitysat, Akonitin

Chemical structure:



Molecular Formula: C₃₄H₄₇NO₁₁

Pharmacological class / Application: Plant alkaloid

CAS-RN: 302-27-2

International status:

US: The substance is not currently listed in the schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Aconitine is an diester diterpence-type alkaloid found in the root of the *Aconitum* species (Ranunculaceae)¹. The plants have been used traditionally the treatment of a range of conditions including the common cold, diarrhea, depression, edema etc and has not been reported in the scientific literature to display neurotoxic and cardiotoxic effects. The substance is not currently listed in the CDSA and is not similar in structure to any of the substances included in the Schedules to the CDSA.

¹Yang, Y. *et al.* (2010) Determination of aconitine, hypaconitine and mesaconitine in urine using hollow fiber liquid-phase microextraction combined with high-performance liquid chromatography, *J. Chromatogr. B.* **878**:2811-2816.

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

Date: 10 November 2010