Drug Status Report

Drug: Platyphylline

Drug Name Status: Platyphylline is the common name.

Chemical Name: (1α)-1,2-Dihydro-12-hydroxysenecionan-11,16-dione

Other Names: Platiphillin

Chemical structure:

![Chemical structure of Platyphylline]

Molecular Formula: $C_{18}H_{27}NO_5$

Pharmacological class / Application: pyrrolizidine alkaloid

International status:

US: The substance is not listed on the schedules to the CSA 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: Platyphylline is a pyrrolizidine alkaloid isolated from the roots of Senecio platifolius and is used primarily as a cholinolytic and spasmolytic agent\(^1\). A variety of plants in the Senecio genus has been used historically for medicinal purposes in Europe, China and South Africa\(^2\) and the toxic potential of pyrrolizidine alkaloids derived from the Senecio genus is well accepted\(^1,3\). Platyphylline is not currently listed in the CDSA and is not similar to any of the substances listed in the Schedules to the CDSA.


\(^2\)Chen KK et al. (1940) The action and toxicity of Platphylline and seneciphylline. J. Pharmacol. Exp. Ther. 68:130-140.

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

December 14\textsuperscript{th}, 2009.