

## Drug Status Report

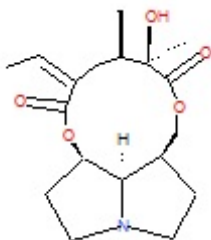
**Drug:** Platyphylline

**Drug Name Status:** Platyphylline is the common name.

**Chemical Name:** (1 $\alpha$ )-1,2-Dihydro-12-hydroxysenecionan-11,16-dione

**Other Names:** Platiphillin

**Chemical structure:**



**Molecular Formula:** C<sub>18</sub>H<sub>27</sub>NO<sub>5</sub>

**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 platefuls* and is used primarily as a cholinolytic and spasmolytic agent<sup>1</sup>. A variety of plants in the *Senecio* genus has been used historically for medicinal purposes in Europe, China and South Africa<sup>2</sup> and the toxic potential of pyrrolizidine alkaloids derived from the *Senecio* genus is well accepted<sup>1,3</sup>. Platyphylline is not currently listed in the CDSA and is not similar to any of the substances listed in the Schedules to the CDSA.

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<sup>1</sup>Zapesochnaya GG *et al.* (1973) Investigation of the stability of platyphillin and seneciphillin in chlorine-containing organic solvents. *Pharm. Chem. J.* **7**:371-372.

<sup>2</sup>Chen KK *et al.* (1940) The action and toxicity of Platyphylline and seneciphillin. *J. Pharmacol. Exp. Ther.* **68**:130-140.

<sup>3</sup>Paiva JA *et al.* (2004) Pyrrolizidine alkaloids in three *Senecio* species from southern Brazil. *Biochem. Systematics Ecol.* **32**:1219-1222.

**Recommendation:**

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

December 14<sup>th</sup>, 2009.