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***Acad. S.Yu. Yunusov Institute of the
Chemistry of Plant Substances AS RUz***

**12th International
Symposium on the Chemistry
of Natural Compounds**

ABSTRACTS

September 7-8, 2017
Tashkent, Uzbekistan

SOURCES OF PLATYPHYLLINE AND ITS DERIVATIVES

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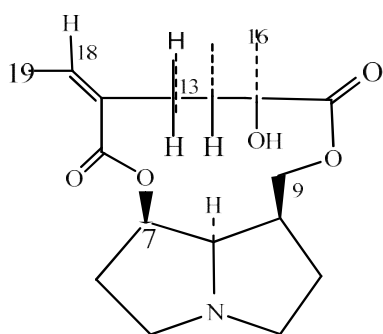
Senecio platyphylloides (Asteraceae family) is a perennial herbaceous plant. Dried grass of *S. platyphylloides* is used as a raw material for the production of platyphylline hydrotartrate.

We investigated the aerial part of *S. platyphylloides* from Georgia and China. The air-dry plant was extracted with 80% alcohol. After processing the yield of the total alkaloids and platyphylline hydrotartrate were the following:

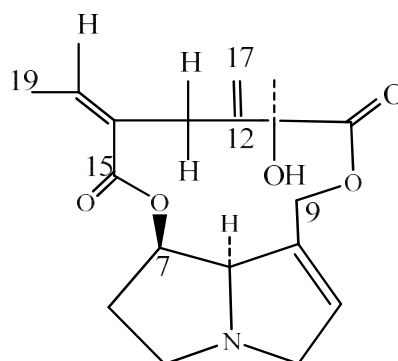
| Growth place | Plant weight, kg | Chloroform amount of alkaloids, g | Amount of platyphylline hydrotartrate from air-dry mass of raw material, % |
|--------------|------------------|-----------------------------------|--|
| Georgia | 13.5 | 105 (0.77%) | 0.1-0.2 |
| China | 12.0 | 70 (0.58%) | 0.05 * |

*With an admixture of sarracine.

On the basis of the alkaloid seneciophylline concomitant with the alkaloid platyphylline the reactions with *N*-bromosuccinimide, bromine and thionyl chloride were carried out.



platyphylline



seneciophylline