

## CONTENT OF TANNINS IN PLANT PRODUCTS OF SOME SPECIES FROM GENUS ACTINIDIA

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The genus *Actinidia*, native to the temperate eastern Asia, contains about 80 species. Many species of this genus have interes for pharmacy, food, green space ornamentation and cosmetics. Plant products collected from 3 species – *A. kolomikta* (Rupr. & Maxim),

*A. argura* (Siebold & Zucc.) Planchand and *A. deliciosa* (A. Chev.) C.F. Liang & A.R. Ferguson, which were introduced into the plant collection of the *Alexandru Ciubotaru* National Botanical Garden were subjected to phytochemical analysis, including tannin content.

Objective of the study was the determination of tannin content in different vegetal products collected from 3 species of genus *Actinidia*, grown in climate conditions of the Republic of Moldova.

Tannin dosing was performed by titrimetric method in different plant products – *Radices, Cortex, Folia and Fructus* of *A. kolomikta*, *A. argura* and *A. deliciosa* species. Content was expressed as % FW.

The experimental data, obtained in 3 replicates, show that all the products analyzed contain tannins, but the content varies from 0.575 to 11.361% depending on the type of plant product and species. The highest tannin values were recorded for juvenile vegetal products of *Cortex* (11.361%) and *Folia* (8.563%) from species *A. kolomikta*. For the other vegetal products such as mature leaves, roots, mature bark, fruits of *A. kolomikta* as well as the other 2 species *A. arguta* and *A. deliciosa* the tannin content ranged between 0.575 and 2.403%.

From all plant products (*Radices, Cortex, Folia, Fructus*) analyzed from 3 species of *Actinidia* (*A. kolomikta, A. arguta and A. deliciosa*), grown in the climate conditions of the Republic of Moldova, the juvenile leaves and bark of *A. kolomikta* species were found to have a high tannin content, which can be used for pharmaceutical purposes.

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