

***Digitalis lanata* L. as a Promising Source of Spirostanol Tigogenin**

Gauhar Chabdolda, Kimbat B. Saparova, Alexander G. Berdin,
Borash I. Tuleuov, Sergazy M. Adekenov

*Institute of Phytochemistry, MES RK,
Gasaliev str., 4, 470032, Karaganda, Kazakstan*

Fax: +7 (321 2) 43 3773

E-mail: arglabin@phyto.kz

It is known that the raw material of *Digitalis lanata* L. is a rich source of different cardiac glycosides. The content of these compounds in dried raw material is 0.8-1.1%. Developing the method of isolation of their aglycones based on the extraction of the aerial parts raw material of the plant with ethyl alcohol, isolation of polar components sum with *i*-BuOH, hydrolysis of the sum with 5% solution of sulfuric acid in water – 1,3-dioxane 1:1 and chromatography of the hydrolysis product on alumina, we have found that the raw material is also a rich source of spirostanol tigogenin, that has been previously isolated from *Digitalis lanata* L. extract. The method used by us is very convenient for isolation of pure tigogenin from *Digitalis lanata* L. and allowed us to isolate this compound with a yield of 0.5% of the raw material dry weight.

Some transformations of tigogenin and aspects of biological activity of this compound and their derivatives are discussed.