DYNAMICS OF THE ACCUMULATION OF LUTEOLIN 7-GLUCOSIDE IN THE LEAVES OF *Salix acutifolia*

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According to a number of authors [1-3], luteolin 7-glucoside possesses biological activity. On the basis of our investigations and literature information [4-6], a promising source of it is the leaves of *Salix acutifolia* Willd. (sharp-leaf willow).

We have studied the dependence of the amount of luteolin 7-glucoside in the leaves of the sharp-leaf willow on the vegetation period.

The amounts of luteolin 7-glucoside (averages for the years 1981-1982) were, on the basis of a chromato-spectrophotometric determination in the leaves of the sharp-leaf willow collected in the Gomel' and Rechitskii regions of Gomel' province, as follows (on the air-dry raw material)

Plant organ	Date of collection	Gomel' region	Rechitskii region
Leaves	14 May	3,44	3,51
"	28 "	3,41	4,43
Stems	28 "	0,09	0,085
Leaves	10 June	3,39	3,72
"	24 "	3,18	3,29
"	8 July	3,30	3,27
"	22 "	3,33	3,35
"	5 August	3,14	3,34
"	20 "	3,25	3,35

These results show that the maximum level of 7-glucoside was found in May during the intensive growth of the leaves. In the following months its amount remained practically constant.

It must be mentioned that the amount of luteolin 7-glucoside in the stems of the sharp-leaf willow was considerably smaller than in the leaves, which agrees with literature for the willow family [6].

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