

PHENOLIC COMPOUNDS OF *Campanula*
rotundifolia AND *C. persicifolia*

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We have previously reported the isolation from *Campanula rotundifolia* and *C. persicifolia* of luteolin and its derivatives [1-3].

Continuing a study of the chemical composition of the epigeal part of *Campanula rotundifolia* L., by chromatography on polyamide we have isolated in small amount a flavonol glycoside in the form of yellow acicular crystals with mp 155-157°C (from ethanol), λ_{\max} 259, 362 nm. The substance was cleaved by acids and by the enzymes of rhamnodiastase into rhamnetin and D-galactose. UV spectroscopy showed that the sugar was attached in position 3. In its R_f values the glycoside coincided with rhamnetin 3-O- β -D-galactoside [4]. The presence of a flavonol in this plant is not characteristic, since it mainly contains flavone compounds.

From the epigeal part of *C. persicifolia* L., collected in the flowering phase in the Priozersk region, Leningrad province, and in Perm province, by separation on a column of polyamide sorbent we have isolated a flavonoid in the form of yellow spherocrystals with mp 186-189°C (from 30% ethanol), $[\alpha]_D^{21} -103.3^\circ$ (c 0.67; ethanol). On the basis of its physicochemical constants, spectral characteristics (IR and UV spectra), and also a chromatographic comparison with an authentic sample, it was identified as luteolin 7-rutinoside [2].

The fractions obtained on column chromatography were used for further investigation for the presence of phenolic compounds. From *C. rotundifolia* we isolated hydroxycinnamic acids - caffeic, p-coumaric, and ferulic acids - and a hydroxycoumarin - esculetin. Similarly, in *C. persicifolia*, in addition to the compounds mentioned, we identified chlorogenic, 3-p-coumaroylquinic, protocatechuic, syringic, vanillic, and p-hydroxybenzoic acids.

This is the first time that any of these compounds has been detected in these plants.

LITERATURE CITED

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