

We have previously isolated from *Achillea millefolium* L. (common yarrow) rutin and the 7-glucosides of apigenin and of luteolin [1-4]. The study of the flavonoid compounds of this plant is continuing. From the raw material collected in the flowering period in the environs of the town of Vitebsk we have isolated flavonoids by the method described previously [5]. The aglycones were separated from the glycosides by the successive extraction of the aqueous solution of the flavonoids with diethyl ether and ethyl acetate. To obtain individual substances we used column chromatography on a polyamide sorbent. By elution of the column with mixtures of ethanol and chloroform, the ethereal fraction yielded apigenin and luteolin (at concentrations of ethanol of 5-6% and 8-9%, respectively). From the ethyl acetate fraction, the eluates obtained with 13-14% ethanol gave cosmosiin and those with 19-20% ethanol gave luteolin 7-O- β -D-glucopyranoside.

The substances were identified on the basis of the results of elementary analysis and UV spectroscopy in the presence of ionizing and complex-forming reagents, the study of the products of alkaline degradation, IR spectroscopy, and the absence of depressions of the melting points of mixtures with authentic samples, and the glycosides were identified by a study of the products of acid and enzymatic hydrolysis.

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