

FLAVONOIDS OF *Ajania fastigiata*

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In the epigeal part of *Ajania fastigiata* family Compositae collected in the flowering period in the environs of the town of Alma-Ata, eight substances of flavonoid nature have been detected by two-dimensional paper chromatography [1], and several free aglycones have been isolated by partition chromatography in various solvent systems. On chromatography in the chloroform-water system, we obtained a flavonoid with the composition $C_{17}H_{14}O_6$, mp 221-223°C (from methanol). In Bryant's cyanidin reaction, the orange pigment passed into octanol, which shows its aglycone nature. On alkaline degradation with 50% KOH solution at 150°C in a current of nitrogen for 40 min, the methyl ether of phloroglucinol and vanillic acid were formed. UV spectrum (in ethanol) 277 and 355 nm. The substance gives bathochromic shifts with sodium acetate, with sodium acetate and boric acid, with sodium ethoxide, and with zirconyl chloride.

When the initial substance was demethylated with freshly distilled hydriodic acid, luteolin was formed; it was identified by the products of alkaline fusion and chromatographically.

On the basis of the facts presented, the substance from the chloroform extract was identified as 4',5-dihydroxy-3',7-dimethoxyflavone or velutin [4].

Extraction with ether yielded quercetin, which was identified by qualitative reactions, its reduction products, and the results of alkaline degradation and bathochromy.

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