

PP 65. ISOLATION OF HEDERAGENIN FROM THE SAPONARIA OFFICINALIS

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Saponaria officinalis L., also known as soapwort or fuller's herb, is a well-known perennial plant in the Caryophyllaceae family. It grows naturally from Europe to Central Asia in various habitats, usually along roadsides, in hedges, and close to water[1-2]. Performing various biological activity studies of this genus is crucial for phytochemical science because it can help to find effective therapeutic features of this species. In this regard, various biological activity studies were performed on extracts from *Saponaria officinalis*, including activities such as: antioxidant, anti-microbial, hepatoprotective, cytotoxic.

Saponins, alkaloids, ascorbic acid, flavonoids, essential oil and other natural compounds have been isolated from various plant organs. The aerial parts of *Saponaria officinalis* were collected in Tashkent of the Republic of Uzbekistan and dried in the air shadow method. The air-dried crushed plant was extracted six times at temperature with methanol. The combined alcohol extract was evaporated in vacuo, completely diluted with water in a ratio of 1:1 and subjected to liquid phase extraction with chloroform and n-butanol. After distilling off the solvent, were obtained 80 g of chloroform and 120 g of butanol extracts. From the butanol fraction was isolated hederagenin. The chemical structure of hederagenin was established based on the analysis of ^1H and ^{13}C NMR spectra, as well as HSQC, HMBC, COSY and NOESY experiments data. Hederagenin from *Saponaria officinalis* has been isolated for the first time.

REFERENCES

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