

## Anatomy of the medicinal plants *Salvia hydrangea*, *Salvia glutinosa* and *Salvia syriaca* in Iran

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**ABSTRACT:**

*Salvia* is one of the most useful medicinal plants in Iran. Various species of *Salvia* are used in the industry for preparation of medicine. In this study, we compared the anatomy of leaves, petioles and a variety of glandular and non-glandular trichomes of three species of *Salvia* viz; *Salvia hydrangea*, *Salvia glutinosa* and *Salvia syriaca* present in Iran. Anatomy studies were performed by identification, cutting and staining the samples. The overall shape of leaves, petioles, number of layers and shape of chlorenchyma cells, scleroid the number of vascular bundles, stomata, mesophilic cells, number of layers of palisade parenchyma, alveolar parenchyma, other parenchyma cells, glandular and non- glandular cells and their counts were analysed and studied. In all three species, stomata type was found to be diacytic. The main vein reported in *Salvia glutinosa* and *Salvia syriaca* was square and isobilateral in *Salvia hydrangea*.

**Keywords:**

Anatomy, *Salvia* L, non-glandular trichomes, mesophilic