

## PHYTOCHEMICAL SCREENING OF *Salvia verbenaca* L. KHEMKHAM Aicha<sup>1</sup>

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Code CCP 10

### Introduction & Objectives:

*Salvia verbenaca* L. is one of the Lamiaceae species distributed around the Mediterranean regions. *Salvia verbenaca* also called vervain sage, wild clary, oculus Christi. It is a common perennial herb throughout the Mediterranean region. This plant exhibits different bioactive properties, including antibacterial, anticancer, antioxidant, antileishmanial, antidiabetic and wound healing. The objective of this study is to investigate the secondary metabolites in crude extracts (methanolic and aqueous) of *Salvia verbenaca*.

### Methodology (Material and methods):

The aqueous extract was prepared by decoction, the methanolic extract was prepared by maceration. Phytochemical screening was performed on the aqueous and methanolic extracts; Preliminary phytochemical screening for alkaloids, flavonoids, sterols, triterpenes, saponins, free anthraquinones, reducing compounds and tannins was carried out for aqueous and methanolic extracts following standard methods previously reported for their identification and confirmation.

### Results and Discussion:

The different extraction methods gave a yield of 7.66% of the aqueous extract and 5.33% of the methanolic extract. The preliminary evaluation of the phytochemical composition of the aqueous and methanolic extracts made it possible to reveal the presence of some chemical groups such as flavonoids, tannins, anthraquinones and alkaloids, the absence of sterols, saponosides and triterpenes. Alkaloids are very abundant in the methanolic extracts of *Salvia verbenaca* whereas they are less abundant in the aqueous extracts. Reducing compounds are present in the methanolic extracts and in low concentration in the aqueous extracts of *Salvia verbaneca*. Flavonoids and tannins are very abundant in both extracts. These phytochemical compounds are known to support bioactive activities in medicinal plants.

### Conclusion:

This phytochemical characterization makes it possible to present a database for the plant *Salvia verbenaca*, and which encourages further scientific research work on Lamiaceae species.

**Keywords:** *Salvia verbenaca*, aqueous extract, methanolic extract, secondary metabolites.

