

GC-MS Analysis of Essential Oil From *Satureja Hispidula*: A Medicinal Plant from Algeria

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Abstract : *Satureja hispidula* is an aromatic and medicinal plant belonging to the family of Lamiaceae native to Algeria, just like mint or thyme. Although she is less known to the general public than her more famous cousins, this species has many therapeutic properties that have been used for centuries in traditional medicine of some regions. For generations, *Satureja hispidula* has been used in traditional medicine to treat various ailments, including respiratory diseases and diabetes. Its aroma, often described as close to that of mint, gives it a special interest in aromatherapy. Due to the growing interest in the beneficial properties of plant-derived essential oils, the aim of this study is to analyze the chemical composition of *S. hispidula* essential oil by gas chromatography coupled with mass spectrometry (GC-MS). Identifying the main constituents of essential oil will allow better understanding its chemical nature and exploring its potential for culinary and therapeutic application. The study of the essential oil of *S. hispidula* reveals a composition rich in 83 compounds, including menthone, pulegone and piperitone as main constituents. This gas chromatography analysis coupled with mass spectrometry provides valuable information about the chemical nature of this oil. However, more in-depth studies are needed to explore the potentially health-enhancing properties of this essential oil.

Keywords : *satureja hispidula*, GC-MS, essential oil, menthone, pulegone

Conference Title : ICMHS 2024 : International Conference on Medicine and Health Sciences

Conference Location : Rome, Italy

Conference Dates : October 10-11, 2024