

O 90. CHEMICAL CHARACTERISATION OF ESSENTIAL OIL FOR SATUREA MONTANA POPULATION FROM BURRELI, ALBANIA

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ABSTRACT: In this study was present data about chemical analysis of essential oil for *Saturea Montana* plant populations from the Burreli area (Central Albania). *Saturea Montana* is native to the Mediterranean region, though it has naturalized in many places around the world. It has a long history of medicinal and culinary use, and as an ornamental garden plant. *Saturea Montana* plants from Burreli area were collected in July 2017. Plants were collected in nine different stations of Burreli areas. The air dried plant samples were cut in small pieces (1-2 cm) and after that were subjected to European Pharmacopoeia apparatus (Clevenger type) for 4 hours to obtain *Saturea Montana* essential oil. The chemical composition of the essential oils was analyzed using GC/FID technique. The oil of each *Saturea Montana* sample was injected in a Varian 450 GC. VF-1ms capillary column (30 m x 0.33 mm x 0.25 μ m) were used for separation of compounds.

Conclusion: p-Cimene, Linalool, Timol and Carvacrol were identified as main constituents and all analyzed essential oils of *Saturea Montana* samples from Burreli area. Their total concentrations were found to be between 35 to 70 % related mainly with geographical position of samples and the time of sampling.

Keywords: *Saturea Montana*, Essential oils, p-Cimene, Linalool, Timol, GC/FID.