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Chemical Composition of the Essential Oil Salvia Officinal from Shiraz Greenhouse

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Abstract:

The genus is distributed throughout the Old World and the Americas, with three distinct regions of diversity: Central and shake the limbs and topic in folk medicine. South America (approx. 500 species), Central Asia and Mediterranean (250 species), Eastern Asia (90 species) various species of the genus salvia are used as Disinfectants, Epileptics Autodigestion, Reduce blood sugar donor, Carminative, Treatment of seizures, Joint pain and dizziness and migraines, Low ering blood sugar

Keywords: Essential oil, salvia, salvia officinal, pinene, camphor

Introduction

Salvia is the largest genus of plants in the mint family, Lamiaceae, with nearly 1000 species of shrubs, herbaceous perennials, and annuals. Within the Lamiaceae, Salvia is member of the tribe Mentheae within the subfamily Nepetoideae [1-3]. It is one of several genera commonly referred to as sage [4-6].

Experimental

Aerial parts of the plants were dried in shade and ground in a grinder. The dried plant sample (400 g) were subjected to hydro distillation for 5 h using a Clevenger type apparatus. The oil was dried over anhydrous sodium sulfate and stored at 4-5º c before analysis. The essential oils were obtained by Clevenger distillation and analyzed by GC/MS. About 40 compounds were

determined in the flower and leaf of T.orientale. type of device is: agilent 7890A mass 7000 triple quadruple.

Result

Phitochemically and the percent of components are: salvene (z) 0.341714, pinene (a) 4.54574, Terpinen-4-ol 0.363659, Camphene 4.235375, Pinene (B) 1.683491, Myrcene 0.858988, cymene (p-) 0.451439, Eucalyptol 13.1074, Terpinene (y) 0.316634, Thujoue (cis) 31.34993, Thujoue (trans) 10.04765, Camphor 21.05148, Isoborneol 1.686626, Terpinen-4-ol 0.363659, Bornyl acetate 1.147407, Caryophyllene (E) 1.921751, Humulene (a) 2.711769, Curcumene (ar) 0.614459, Caryophyllene oxide 0.648944, Globulol 2.3293, Humulene epoxide II 0.586244 have already been isolated from this plant and analyzed.

REFRENCES

[1]. A. Mozaffarian, Dictionary of Iranian Plant Names, Farhang Moaser, Tehran, Iran, 1996, 542

[2]. M. abdollahi, H. Karimpor and H. R. Monsef- Esfahani, Pharmacol. Res 2003, 48, 31

[3]. A. M. Galstyan, A. S, Shashkov, G. B. Oganesyan and V. A. Mnatsakanyan, Chem. nat. comp, 1993, **28**, 439

[4]. G. B. Oganesyan, Chem. Nat. Comp 2005, **41**, 228

[5]. C. Betsy, C. D. Barner, The New Book of Salvias Timber Press, 2003, 216.

[6]. H. Lorraine, RHS Latin for gardeners United Kingdom, Mitchell Beazley, 2012, 24.