

## **Chemical Composition of the Essential Oil *Salvia officinalis* 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 officinalis*, 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 4-5° 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.

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