

## **Chemical composition of lavender (*Lavandula officinallis* L.) extraction extracted by two solvent concentrations**

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### **ABSTRACT:**

The genus *Lavandula* (Labiatae), consisting of about 28 species, is widely distributed in the archipelagoes of the Atlantic Ocean and the Mediterranean. In China, there are only 2 species, *Lavandula angustifolia* Mill. and *L. officinallis* Vil, mainly growing in Urmia. Essential oils and plant extracts derived from the genus *Lavandula* have been used therapeutically for centuries and there are some reports on the biological activities of Lavender essential oil (Cavanagh and J. M. Wilkinson, 2002; Moon *et al.* 2006). In this study with Maceration extraction method chemical composition were investigated. Two different concentration of ethanol (96 and 70 %) were applied to extraction. Analysis data obtained from GC mass extraction with ethanol 96% include Ethane, p-Vinylguaiacol, Methanecarboxylic acid, Pentadecanoic acid, Dimethylamin, N, N-Dimethyl Methanesulfonamide. Constituents in other concentration ethanol 70% were included Cyclopropyl Carbinyl-D2- Methyl ether, Heptanoic acid, Acetic acid, 2-Propanone, Melilotin, Herniarine.