



Chemical composition of Elamit *Mentha longifolia*(L.)Huds

Mahnaz Mardani¹, Omid Afsordeh², Zohreh Eftekhari³,
Mahmoud Rafieian-Kopaei^{4*}, Fariba Bahmani², Marzieh Rashidipour⁵

¹Nutritional Health Research Center, Health and Nutritional Department, Lorestan University of Medical sciences, Khorramabad, Iran

²Department of Microbiology, Faculty of Medicine and Clinical Microbiology Research Center, Ilam University of Medical Sciences, Ilam, Iran

³Research & Development Department, Research & Production Complex, Pasteur Institute of Iran, Tehran, Iran

⁴Medical Plants Research Center, Shahrekord University of Medical sciences, Shahrekord, Iran

⁵Young Researches and Elite Club, Khorramabad Branch, Islamic Azad University, Khorramabad, Iran

Abstract : Oregano plant with the scientific name of *Mentha longifolia* L. and genus of Mentha is owned by the Lamiaceae family. In traditional medicine it is used to treat nausea, bronchitis, bloating and loss of appetite. It also has carminative, antispasmodic and anti-inflammatory properties. In this study, the chemical composition of Mentha native to Ilam Province was examined. Initially, the essential oil was extracted and analyzed with chromatography/ mass spectrometry (GC-MS). Based on the results obtained from the GC-MS method SMPE, it became clear that there were 55 active ingredients in the essential oil. Phytochemical analysis showed that beta-Phellandrene, α -PINENE, trans-Caryophyllene and β -Myrcene constituted respectively 19.95%, 17.85%, 10.15% and 9.15% of the ingredients of Oregano plant native to Ilam which most known composition of oregano isolated from Ilam Province plant was beta-Phellandrene (19.95%).

Keywords: Medicinal herbs, essential oils, oregano Elamite, beta-Phellandrene.