

Antibacterial Activity and Composition of the Essential Oil of *Ziziphora clinopodioides* subsp. *bungeana* (Juz.) Rech. f. from Iran

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The chemical composition of the essential oil obtained from the aerial flowering parts of *Ziziphora clinopodioides* subsp. *bungeana* (Juz.) Rech. f. was analyzed by GC and GC-MS. Thirty-two components representing 97.1% of the total oil were identified. Oxygenated monoterpenes (94.3%) were the predominant fraction of the oil with pulegone (65.2%), *iso*-menthone (11.9%), 1,8-cineole (7.8%) and piperitenone (6.5%) as the main constituents. Antibacterial activity of the oil and also its two main components (pulegone and 1,8-cineole) were tested against seven bacteria. It was found that the oil exhibited interesting antibacterial activity against *Staphylococcus epidermidis*, *S. aureus*, *Escherichia coli* and *Bacillus subtilis* with MIC values of 3.75 mg/ml.

Key words: Essential Oil Composition, Antibacterial Activity, *Ziziphora*