

4th International Food Safety, Quality & Policy Conference

December 05-06, 2016 Dubai, UAE

Biological activity of *Salvia virgata* Jacq

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The genus *Salvia L.* (Lamiaceae) represented approximately 960 species all over the world while there are 99 species 55 of which are endemic in Flora of Turkey. Some species of the genus are consumed as herbal tea and some are used for traditional therapeutic purposes. Some members of the genus are an important export commodity. Dried herbal parts of *S. virgata* which were collected from Mersin, Turkey, 2014, were macerated with methanol at 25°C for 24 h. After evaporation of the methanol parts dry extract was used for LC-MS/MS analysis. Phenolic compound determination was performed using a Shimadzu 20A HPLC system coupled to an Applied Biosystems 3200 Q-Trap LC-MS/MS instrument equipped with an ESI ion source was used in the negative ionization mode. Separations were performed on a ODS 150 x 4.6 mm, i.d., 3 µm particle size, octadecyl silica gel analytical column operating at 40°C at a flow rate of 1 mL/min. Aerial parts of *S. virgata* were hydrodistilled to obtain an essential oil that was then analyzed simultaneously by GC and GC/MS. Anticandidal and antibacterial effects of the oil and methanolic extract of aerial parts of *S. virgata* were evaluated against pathogenic *Candida* and bacteria strains by using CLSI M27-A2 and M7-A7 protocols respectively. Rosmarinic acid, was determined as the main compound of methanol extract while Caffeic acid, Luteolin glucoside were identified tentatively. Borneol (19.48 %), Camphor (14.64%), α-Pinene (8.9%) were found as major components of essential oil.

Biography

Yavuz Bulent Kose received his MSc degree in 2001 from Osmangazi University Graduate School of Science. He received his PhD from the Anadolu University Graduate School of Science. Currently, he is working as Associate Professor at Anadolu University Faculty of Pharmacy, Pharmaceutical Botany Department. He has published about 30 academic papers in reputed journals.

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