



***In vitro* Antibacterial Activity of the Essential oil from
Erigeron multiradiatus (Lindl.) Benth**

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ABSTRACT

Erigeron multiradiatus (Lindl.) Benth family Asteraceae grow wild in the alpine and subalpine meadow of Qinghai-Tibet plateau, at an altitude range of 2600–4300 m. The species has been reported to treat various diseases related with inflammation such as rheumatism, hemiparalysis, hyperpiesia, hepatitis, adenolymphitis and enteronitis. Antibacterial activity of the oil sample was conducted against 11 bacterial strains using disc-diffusion method. The *E. multiradiatus* oil showed maximum zone of inhibition against *Ralstonia solanacearum* (18.00±0.57 mm), *Bacillus subtilis* (15.33±1.52 mm) and *Pseudomonas aeruginosa* (13.00±1.00 mm) with minimum inhibitory concentration (MIC) of 50, 75 and 75 $\mu\text{L mL}^{-1}$ respectively. It is finally concluded that the oil might be used as safer natural antibiotics.

Keywords: *Erigeron multiradiatus*, Essential oil, Antibacterial activity, Disc-diffusion method.
