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Essential Oils Analysis of *Achillea biebersteinii* Afan. and *Achillea nobilis* L. subsp. *neilreichii* (Kerner) Formanek from Iran

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Abstract

Achillea is one of the most important genres of *Asteraceae* family and different species used as medicinal plant. In this research, in order to determine the essential oils contents and constituents of *Achillea biebersteinii* and *A. nobilis*, the blooming herbs in June 2006 in Khorasan province (Golmakan part) were collected and after drying, essential oils of the samples were extracted by "Clevenger". Essential oils constituents determined by GC and GC-MS. The results showed that essential oils yield of these *Achillea* were 0.8 % v/w. Thirty components of *Achillea biebersteinii* determined and the main components were: 1,8-cieole (32.82%), Carvacrol (10.85%) Piperitone (7.34%), *o*-Cymene (6.68%) and β -Pinen oxide (5.73%). Twenty-one components of *Achillea nobilis* determined and the main components were: α -Thujone(34.06%), 1,8-cineole(14.14%), β -Cedren-epoxide(9.63%), β -Thujone (6.57%) and Camphor(5.75%).

References:

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