Volatile compounds of *Tripleurospermum decipiens* from different sites in Turkey

Mine Kurkcuoglu\(^1\), Fatma Tosun\(^2\), Huseyin Inceer\(^3\), K. Husnu Can Baser\(^{1,4}\)

\(^1\)Anadolu University, Faculty of Pharmacy, Department of Pharmacognosy, TR-26470 Eskisehir, Turkey
\(^2\)Gazi University, Faculty of Pharmacy, Department of Pharmacognosy TR-06330 Ankara, Turkey
\(^3\)Karadeniz Technical University, Faculty of Sciences and Arts, Department of Biology, TR-61080 Trabzon, Turkey
\(^4\)Near East University, Faculty of Pharmacy, Department of Pharmacognosy, Near East Boulevard, ZIP: 99138, Nicosia / TRNC, Mersin 10, Turkey

The genus *Tripleurospermum* Schultz Bip. is represented in Turkey by 31 taxa, 15 being endemic in Turkey\(^1\)\(^\text{-}^3\). Hydrodistilled essential oils of the dried flowers of *Tripleurospermum decipiens* (Fisch. & Mey.) Bornm. [Asteraceae] were analyzed by GC-FID and GC-MS. The oils were characterized by the occurrence of matricaria esters as main constituents. Flowers of *T. decipiens* were collected from two localities in Turkey; A: Adana: Saimbeyli-Yesilkent road, 12.06.2014 – TDA; B: Eskişehir: Between Bozüyük- Eskişehir, 26.06.2009 – TDB. The essential oils of TDA and TDB were characterized by the occurrence of (2Z,8Z)-matricaria ester (TDA: 57.9%;TDB: 70.0%), β-sesquiphellandrene (TDA: 10.4%;TDB: 2.7%), (E,8Z)-matricaria ester (TDA: 8.1%;TDB: 1.7%), (Z)-β-farnesene (TDA: 7.5%, TDB: 0.3%), (E,8E)-matricaria ester (TDA: 2.3%, TDB: 0.4%) and (2Z,8E)-matricaria ester (TDA: 1.4%;TDB: 0.5%) as main constituents. Matricaria esters were previously found in other *Tripleurospermum* species such as *T. disciforme* (C.A.Mey) Schultz-Bip. \(^5\) and *Matricaria perforata* Merat (=*Tripleurospermum inodorum* (L.) Sch. Bip.) \(^6\). To the best of our knowledge, this is the first report on the essential oil composition of *Tripleurospermum decipiens*.

**Keywords:** *Tripleurospermum decipiens*, essential oils, GC, GC-MS, matricaria esters

**References:**


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**Presenter:** Dr. Mine Kurkcuoglu