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

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The genus *Tripleurospermum* Schultz Bip. is represented in Turkey by 31 taxa, 15 being endemic in Turkey[1-3]. 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 (2*Z*,8*Z*)-matricaria ester (TDA: 57.9%;TDB: 70.0%), β-sesquiphellandrene (TDA: 10.4%;TDB: 2.7%), (2*E*,8*Z*)-matricaria ester (TDA: 8.1%;TDB: 1.7%), (*Z*)-β-farnesene (TDA: 7.5%, TDB: 0.3%), (2*E*,8*E*)-matricaria ester (TDA: 2.3%, TDB: 0.4%) and (2*Z*,8*E*)-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

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