

GC-MS characterization of the *Holoschenus Vulgaris* L essential oil

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Abstract. The aim of the paper is to analyse by GC-MS the chemical constituents of *Holoschenus Vulgaris* L essential oil. The essential oil of *Holoschenus Vulgaris* L species, harvested in June 2008, in the Navodari-Hanul Piratilor area, Constantza County, Romania, counts for 0.04 % yield. Using the GC-MS analysis, the following compounds were identified and quantitatively determined with reference substances: limonene, 30.25% (m/v), as the major component of the essential oil and β -pinene 5.65% (m/v). Using data base of apparatus there were identified other 2 components: dibuthyl phtalate, squalen.

The anti-inflammatory and antiseptic properties of these compounds, known from specific studies, could justify the exploitation of this essential oil in dermatological diseases treatments. The existence of limonene ensures protection against the other potential harmful constituents in the essential oil.

Keywords: *Holoschenus Vulgaris* L, essential oil, GC-MS, limonene, β -pinene, therapeutic properties.
