

Volatile constituents of the seed Kernel and leaf of *Moringa peregrina* (Forssk.) Fiori, Agricolc. cultivated in Chabahr (Iran)

S. Dehshahri^{1,*}, G. Asghari², S. Afsharypuor¹, A. Mohagheghzadeh¹

¹Department of Pharmacognosy, School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences, Isfahan, Iran

²Isfahan Pharmaceutical Sciences Research Center, Isfahan University of Medical Sciences, Isfahan, Iran

Background and Aims: Volatile constituents of the seed kernel and leaf of cultivated *Moringa peregrina* (Forssk.) Fiori, Agricolc. collected after hydrolysis were analyzed by GC and GC/MS. Five glucosinolate degradation products which constituted almost the whole isolated oil of the seed kernel were identified to be: isobutyl isothiocyanate (94.0%), isopropyl isothiocyanate (4.9%), sec-butyl isothiocyanate (0.5%), n-butyl isothiocyanate (0.5%) and benzyl isothiocyanate (<0.1%); while the volatile isothiocyanates which constituted also almost the whole isolated oil of the leaf were found to be: isobutyl isothiocyanate (88.5%), isopropyl isothiocyanate (10.2%), n-butyl isothiocyanate (0.4%) and sec-butyl isothiocyanate (<0.1%).

Keywords: Isobutyl isothiocyanate; Isopropyl isothiocyanate; *Moringa peregrina*; *Moringaceae*; Volatile isothiocyanates.