

***In vitro* screening of antimicrobial and anti-coagulant activities, ADME profiling, and molecular docking study of *Citrus limon* L. and *Citrus paradisi* L. cold-pressed volatile oils**

Assia Hamdi¹, Mabrouk Horchani², Hichem Ben Jannet², Mejdi Snoussi^{3,4}, Emira Noumi^{3,4}, Nouha Bouali^{3,4}, Adel Kadri^{5,6}, Flavio Polito⁷, Vincenzo De Feo^{7*}, Hayet Edziri⁸

¹Laboratory of Chemical, Pharmaceutical and Pharmacological Development of Drugs, Faculty of Pharmacy, University of Monastir, Tunisia; hamdiessia@gmail.com (A.H.)

²Laboratory of Heterocyclic Chemistry, Natural Products and Reactivity, Team: Medicinal Chemistry and Natural Products (LR11ES39), Department of Chemistry, Faculty of Science of Monastir, University of Monastir, Avenue of Environment, 5019, Monastir, Tunisia; horchani.mabrouk@gmail.com (M.H.); hichem.bjannet@gmail.com (H.B.J.)

³Department of Biology, College of Science, University of Ha'il, P.O. Box 2440, Hail 2440, Saudi Arabia; nouhabouali82@gmail.com (N.B.); eb.noumi@uoh.edu.sa (E.N.); m.snoussi@uoh.edu.sa (M.S.)

⁴Medical and Diagnostic Research Centre, University of Ha'il, Hail 55473, Saudi Arabia

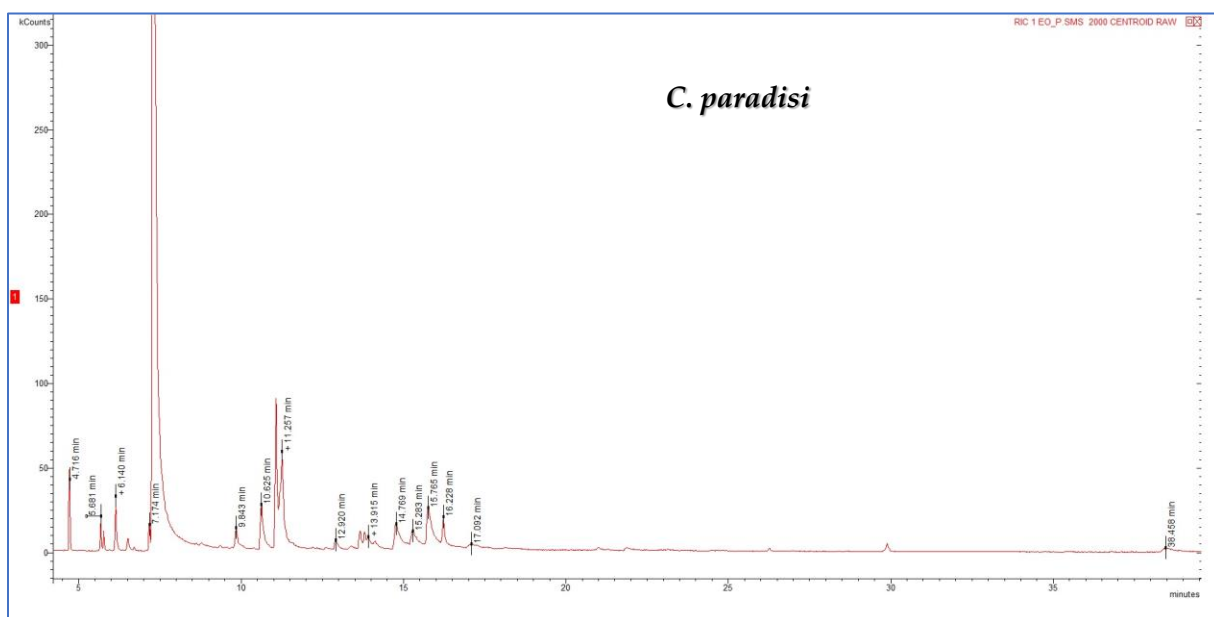
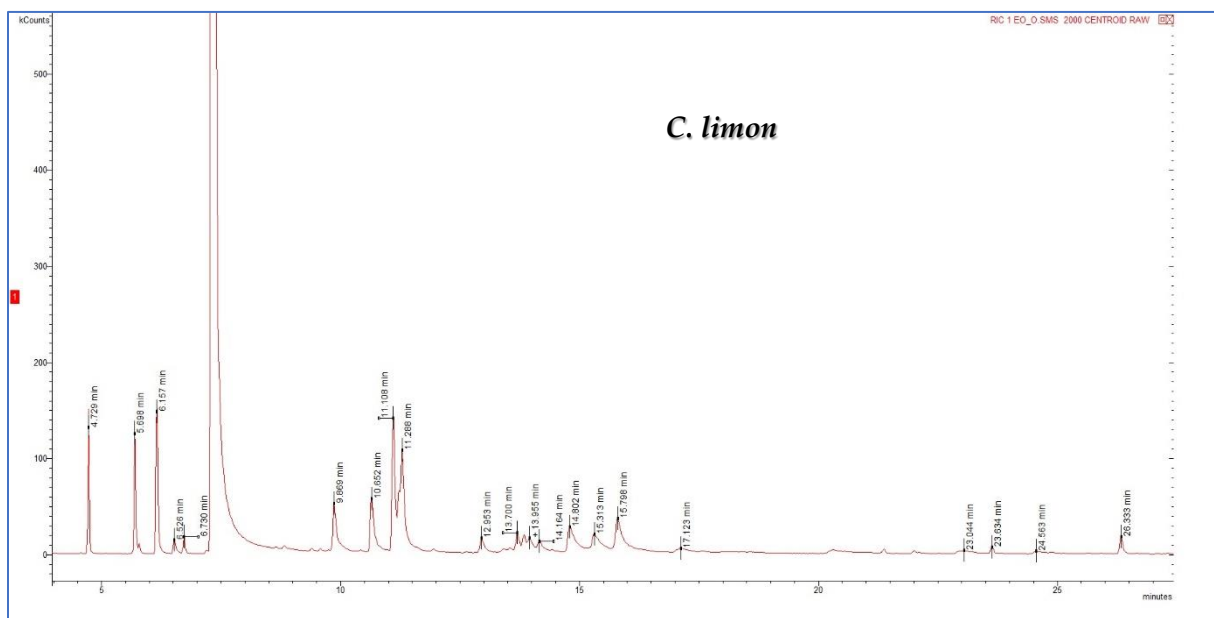
⁵College of Science and Arts in Baljurashi, Al Baha University, P.O. Box (1988), Al Baha, Saudi Arabia. lukadel@yahoo.fr (A.K.)

⁶Laboratory of Plant Biotechnology Applied to Crop Improvement, Faculty of Sciences of Sfax, University of Sfax, B.P. 11713000, Sfax, Tunisia

⁷Department of Pharmacy, University of Salerno, Via Giovanni Paolo II, 132, Fisciano, 84084 Salerno, Italy; fpolito@unisa.it (F.P.); defeo@unisa.it (V.D.F.)

⁸Laboratory of Transmissible Diseases and Biologically Active Substances, Faculty of Pharmacy, 5000, Monastir, Tunisia; jaziri_hayet@yahoo.fr (H.J.)

*Correspondence: defeo@unisa.it (V.D.F.)



Supplementary material SM1. Chromatograms obtained for both *C. limon* and *C. paradisi* obtained by using by SPME/MS technique.