

Antioxidant and Anti-Inflammatory Effects of Thyme (*Thymus vulgaris* L.) Essential Oils Prepared at Different Plant Phenophases on *Pseudomonas aeruginosa* LPS Activated THP-1 Macrophages

Edina Pandur ¹, Giuseppe Micalizzi ^{2,3}, Luigi Mondello ^{2,3,4}, Adrienn Horváth ¹, Katalin Sipos ¹ and Györgyi Horváth ^{5,*}

¹ Department of Pharmaceutical Biology, Faculty of Pharmacy, University of Pécs, H-7624, Rókus u. 2., Pécs, Hungary; katalin.sipos@aok.pte.hu, edina.pandur@aok.pte.hu, horvath.adrienn2@pte.hu

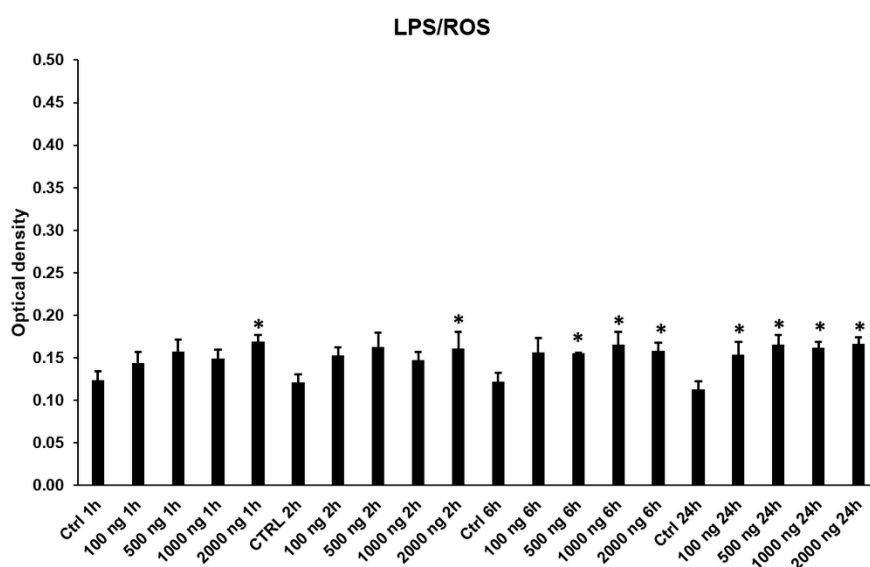
² Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, 98168, Italy; giuseppe.micalizzi@chromaleont.it, lmondello@unime.it

³ Chromaleont s.r.l., c/o Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, 98168, Italy; giuseppe.micalizzi@chromaleont.it, lmondello@unime.it

⁴ Unit of Food Science and Nutrition, Department of Medicine, University Campus Bio-Medico of Rome, 00128 Rome, Italy; lmondello@unime.it

⁵ Department of Pharmacognosy, Faculty of Pharmacy, University of Pécs, H-7624, Rókus u. 2., Pécs, Hungary; horvath.gyorgyi@gytk.pte.hu

* Correspondence: horvath.gyorgyi@gytk.pte.hu



Supplementary Figure S1. Measurement of reactive oxygen species after treatment of THP-1 cells with *P. aeruginosa* LPS. THP-1 cells were treated with increasing concentration *P. aeruginosa* LPS (100 ng/mL - 2000 ng/mL) for different time periods (1 h – 24 h) to find the proper LPS concentration and incubation time for generating ROS. Asterisk marks $p < 0.05$ compared to the appropriate control (1 h, 2 h, 6 h and 24 h).