

## Supplementary Material

# Antioxidant, antimicrobial and antibiofilm properties of *Glechoma hederacea* extracts obtained by supercritical fluid extraction, using different conditions of the process

Daniela Gwiazdowska <sup>1,\*</sup>, Pascaline Aimee Uwineza <sup>2</sup>, Szymon Frąk <sup>1</sup>, Krzysztof Juś <sup>1</sup>, Katarzyna Marchwińska <sup>1</sup>, Romuald Gwiazdowski <sup>3</sup>, and Agnieszka Waśkiewicz <sup>2</sup>

<sup>1</sup> Department of Natural Science and Quality Assurance, Institute of Quality Science, Poznań University of Economics and Business, Niepodległości 10, 61-875 Poznań, Poland; szymon.frak@phd.ue.poznan.pl (S.F); krzysztof.jus@ue.poznan.pl (K.J.); katarzyna.marchwinska@ue.poznan.pl (K.M.);

<sup>2</sup> Department of Chemistry, Poznań University of Life Sciences, Wojska Polskiego 75, 60-625 Poznań, Poland; pascaline.uwineza@up.poznan.pl (P.A.U.); agnieszka.waskiewicz@up.poznan.pl (A.W.)

<sup>3</sup> Research Centre for Registration of Agrochemicals, Institute of Plant Protection-National Research Institute, Władysława Węgorka 20, 60-318 Poznań, Poland; r.gwiazdowski@iortpib.poznan.pl

\* Correspondence: daniela.gwiazdowska@ue.poznan.pl (D.G.); Tel.: +48-61-856-95-36

**Citation:** Gwiazdowska, D.; Uwineza, P.A.; Frąk, S.; Juś, K.; Marchwińska, K.; Gwiazdowski, R.; Waśkiewicz, A. Antioxidant, Antimicrobial and Antibiofilm Properties of *Glechoma hederacea* Extracts Obtained by Supercritical Fluid Extraction, Using Different Extraction Conditions. *Appl. Sci.* **2022**, *12*, 3572. <https://doi.org/10.3390/app12073572>

Academic Editor: Antonio Valero

Received: 8 February 2022

Accepted: 29 March 2022

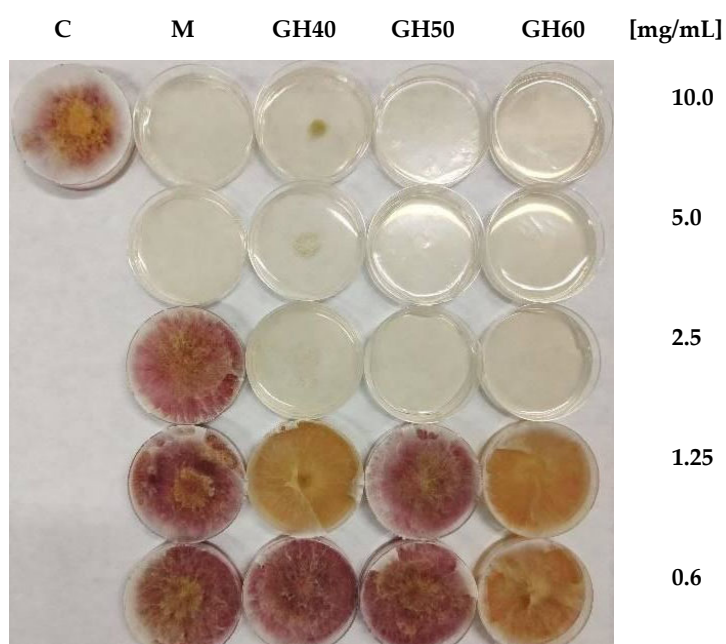
Published: 31 March 2022

**Publisher's Note:** MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.

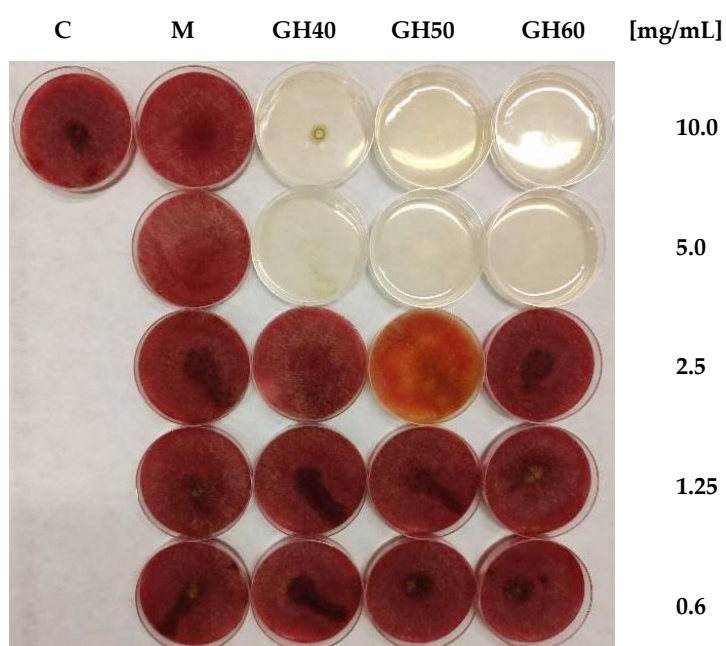


**Copyright:** © 2022 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

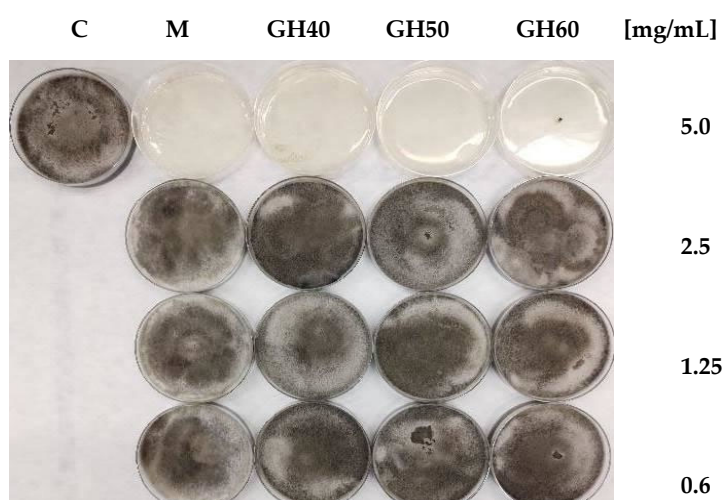
## 1. Supplementary Material



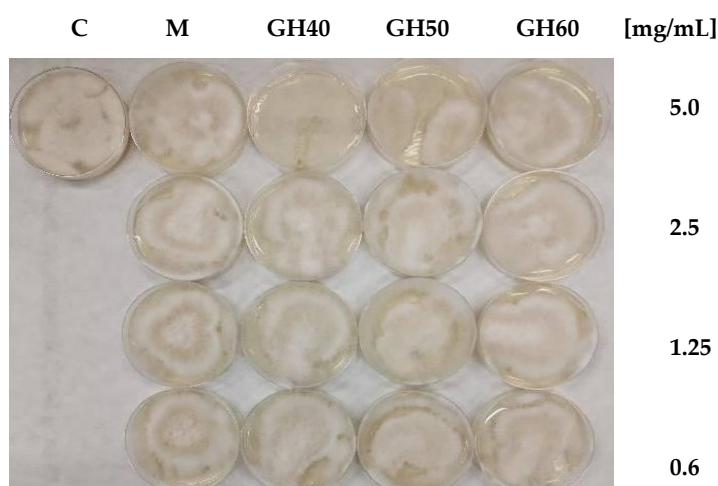
(a)



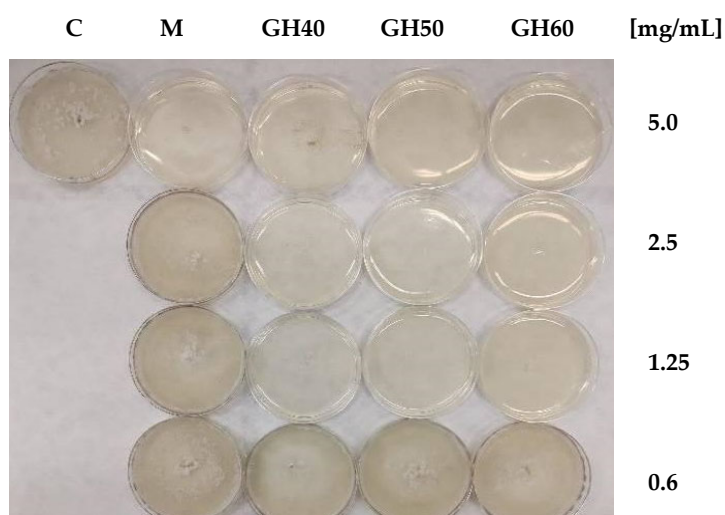
(b)



(c)



(d)



(e)

**Figure S1.** The fungistatic activity of obtained *G. hederacea* CO<sub>2</sub> extracts against (a) *F. graminearum*, (b) *F. culmorum*, (c) *A. alternata*, (d) *B. cinerea*, (e) *S. sclerotiorum* expressed as MIC and MFC values. C – control; M – methanol; GH 40 - *G. hederacea* CO<sub>2</sub> extract (extraction conditions: 40°C/250 bar); GH 50 - *G. hederacea* CO<sub>2</sub> extract (extraction conditions: 50°C/250 bar); GH 60 - *G. hederacea* CO<sub>2</sub> extract (extraction conditions: 60°C/250 bar); Cp – percentage concentration of CO<sub>2</sub> extracts.