

Electronic Supporting Information

Antioxidant and leishmanicidal evaluation of *Pulicaria inuloides* root extracts: a bioguided fractionation

Hamza Fadel¹, Ines Sifaoui^{2,3}, Atteneri López-Arencibia², María Reyes-Batlle², Ignacio A. Jiménez⁴, Jacob Lorenzo-Morales², Nabil Ghedadba⁵, Samir Benayache¹, José E. Piñero^{2*}, Isabel L. Bazzocchi^{4*}

¹ Unité de recherche Valorisation des Ressources Naturelles, Molécules Bioactives et Analyses Physicochimique et Biologiques, Université Constantine-1, Route d'Ain El Bey, 25 000 Constantine, Algérie

² Instituto Universitario de Enfermedades Tropicales y Salud Pública de Canarias, Universidad de La Laguna, Avda. Astrofísico Fco. Sanchez, S/N, 38203 La Laguna, Tenerife, Canary Islands, Spain

³ Laboratoire Materiaux-Molecules et Applications, IPEST, University of Carthage, La Marsa, Tunisia

⁴ Instituto Universitario de Bio-Orgánica Antonio González, Departamento de Química Orgánica, Universidad de La Laguna, Avenida Astrofísico Francisco Sánchez 2, La Laguna 38206, Tenerife, Canary Islands, Spain

⁵ Laboratory of Biotechnology of the Bioactive Molecules and Cellular Physiopathology, Department of Biology, University of Batna 2, Algeria.

Table of Contents

Figure S1: Calibration graphs for total phenolic and flavonoid contents ($\mu\text{g/mL}$)

Figures S2: ^1H NMR spectrum of thymol derivative **1**.

Figure S3. ^{13}C NMR spectrum of thymol derivative **1**.

Figure S4. 2D-COSY NMR spectrum of thymol derivative **1**.

Figure S5. 2D-HMBC NMR spectrum of thymol derivative **1**.

Figure S6. 2D-HSQC NMR spectrum of thymol derivative **1**.

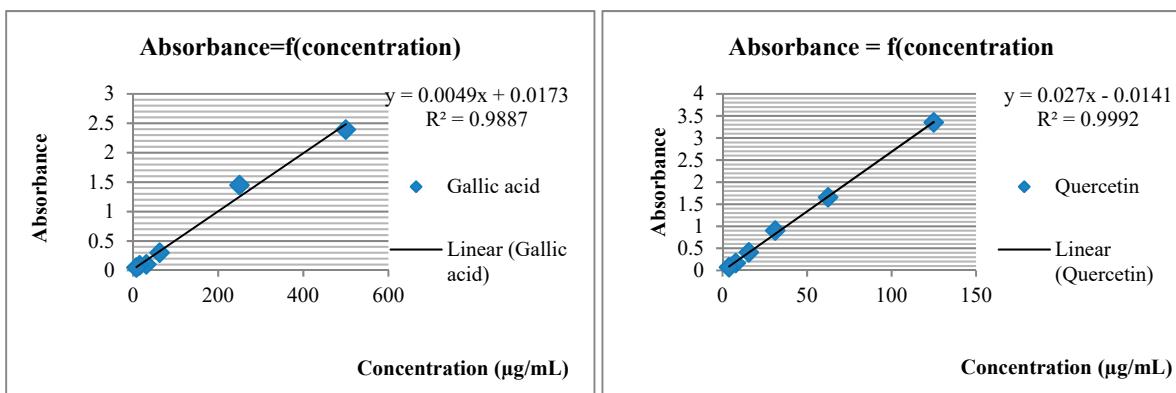


Figure S1. Calibration graphs for total phenolic and flavonoid contents ($\mu\text{g/mL}$) in *Pulicaria inuloides*.

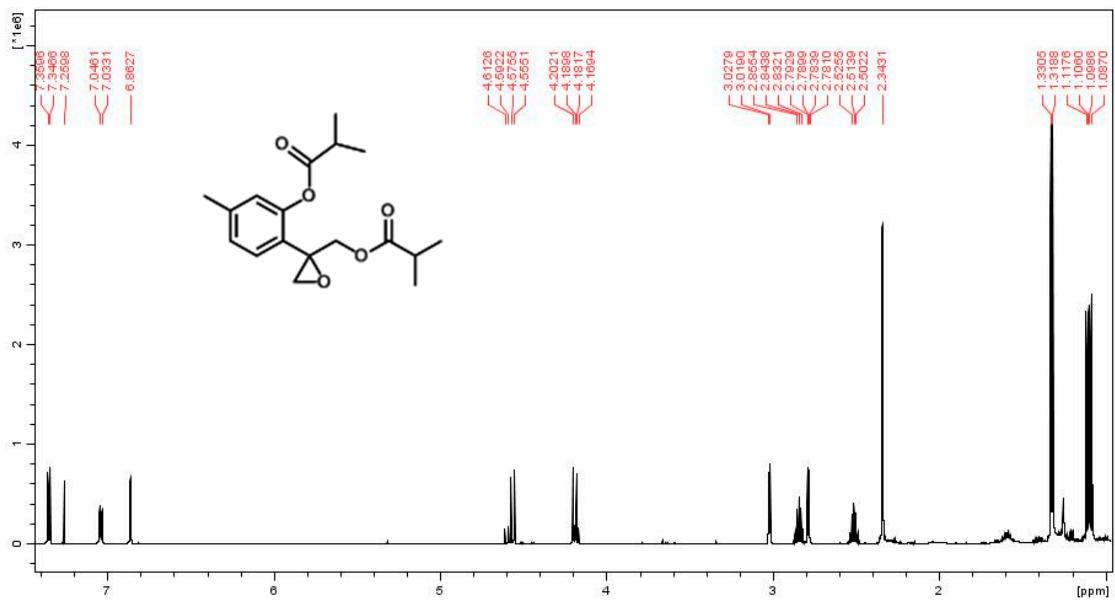


Figure S2. ^1H NMR spectrum of **1** in CDCl_3 (600 MHz).

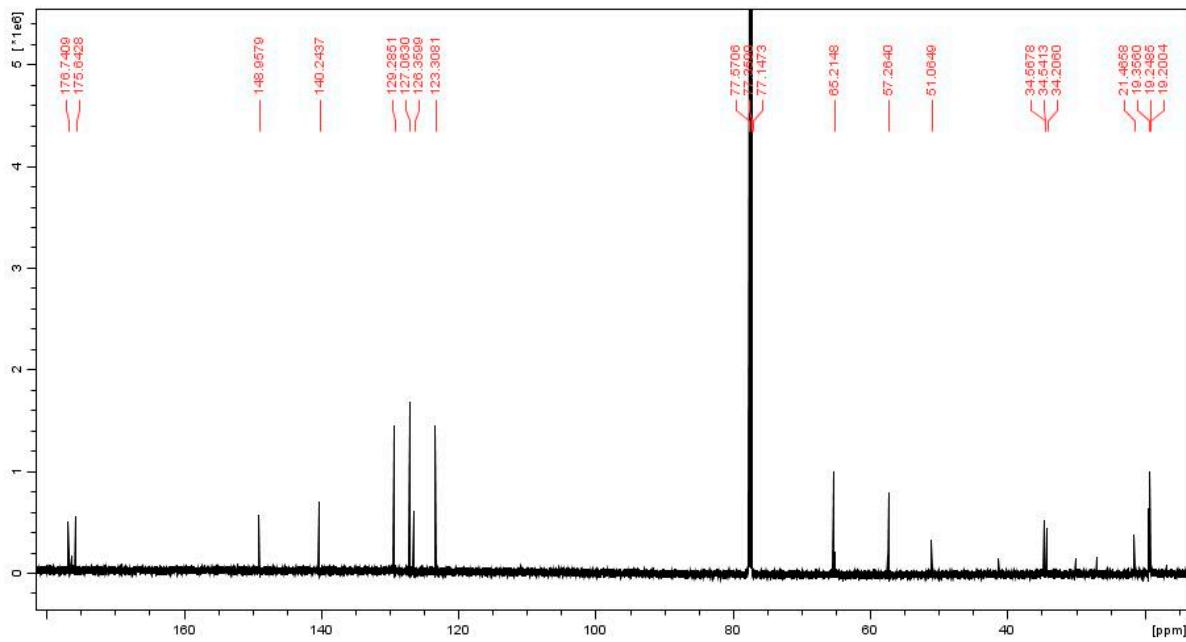


Figure S3. ^{13}C NMR spectrum of **1** in CDCl_3 (150 MHz).

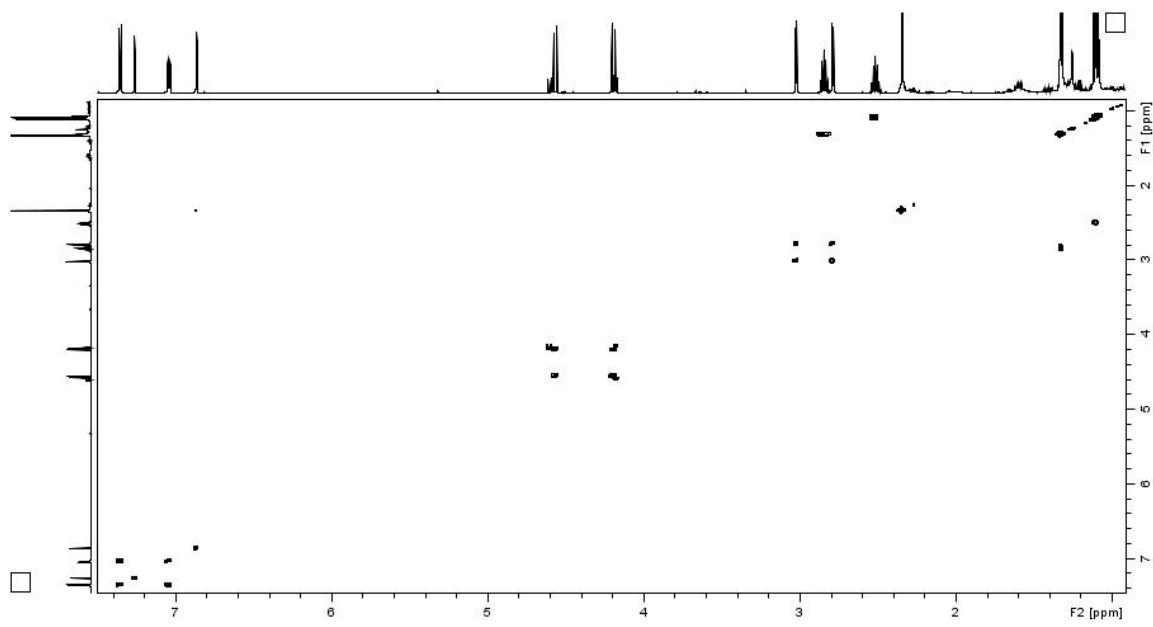


Figure S4. 2D-COSY (^1H - ^1H) NMR spectrum of **1** in CDCl_3 (600 MHz).

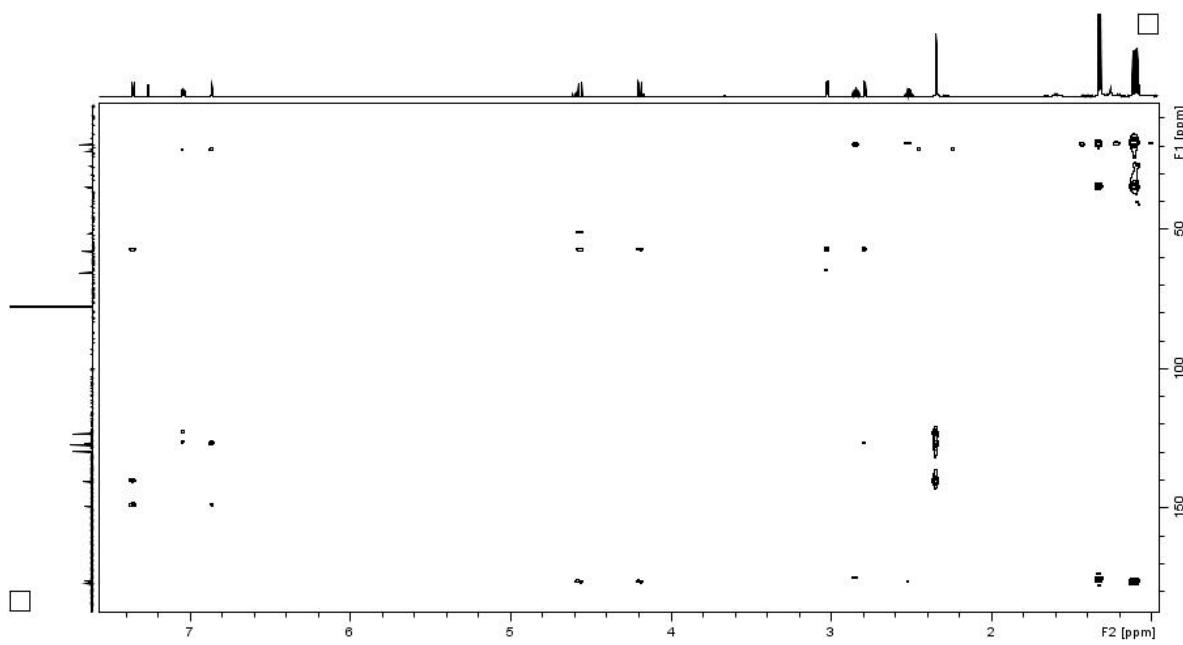


Figure S5. 2D-HMBC (^1H - ^{13}C) NMR spectrum of **1** in CDCl_3 (600 MHz).

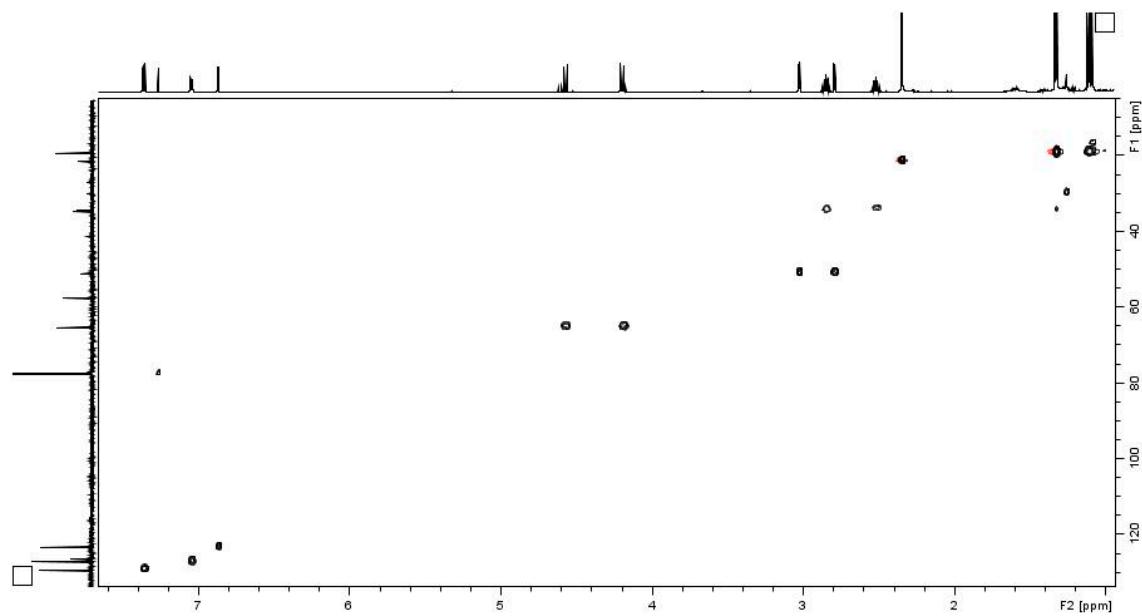


Figure S6. 2D-HSQC (^1H - ^{13}C) NMR spectrum of **1** in CDCl_3 (600 MHz).