



Article

Investigation of Phytochemical Composition, Antioxidant and Antibacterial Activity of Five Red Flower Extracts

Diana Ionela Popescu (Stegarus)¹, Oana Romina Botoran² and Ramona Maria (Iancu) Cristea^{1*}

¹ National Research and Development Institute for Cryogenic and Isotopic Technologies – ICSE Ramnicu Valcea, 240050 Ramnicu Valcea, Romania; diana.stegarus@icse.ro (D.I.P.); oana.dincacristea.ro (O.R.B.)

² Department of Agricultural Science and Food Engineering, “Lucian Blaga” University of Sibiu, 7-9 Dr. Ion Raftiu, 550024 Sibiu, Romania

* Correspondence: ramona.cristea@ulbsibiu.ro; Tel.: +40-755-108-317

Abstract: The presence of bioactive compounds in plants with red flowers constitutes a valuable natural resource for the food, pharmaceutical, and medical industries. This paper aims to highlight these characteristics to facilitate the selection of extracts according to market needs. The analyzed parameters can provide valuable insights into the compositional variability of the five red flower plants, as new sources of bioactive compounds and natural antioxidants of plant origin. Five plants with red flowers (*Magnolia liliflora*, *Chrysanthemum morifolium*, *Hibiscus sabdariffa*, *Petonia grandiflora*, *Rosa hybrida* L.) were selected and investigated regarding their polyphenol concentration, total anthocyanins, antioxidant activity, phenolic compounds, and antimicrobial activity. Total polyphenols were found in concentrations ranging from 75.17 ± 0.16 mgGAE/g (*C. morifolium*) to 107.49 ± 0.19 mgGAE/g (*R. hybrida* L.), and total anthocyanins between 14.99 ± 0.13 mg Cy-3-Glu/g and 21.66 ± 0.18 mg Cy-3-Glu/g. The antioxidant activity DPPH/IC50 mg/mL for the extract from *R. hybrida* L. flowers reached a value of 29.35 ± 0.17 mg/g, with ABTS and FRAP achieving maximum values of 49.89 ± 0.24 μ mol TE/g and 48.68 ± 0.23 μ mol TE/g, respectively. The antibacterial activity was particularly evident against strains commonly encountered in human pathology, *Escherichia coli* and *Staphylococcus aureus*, with reduced or no impact on strains of *Pseudomonas fluorescens* and *Proteus mirabilis*. The results demonstrated that the extracts from the selected, red-flowered plants contain valuable biologically active compounds in generous quantities, thus recommending their use in the food, pharmaceutical, and medical sectors.

Keywords: red flowers; polyphenols; anthocyanins; phenolic compounds; antioxidant activity; antibacterial activity

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1. Introduction

Plant extracts are currently a topic of increasing study; they are incorporated into natural medicines that are more easily assimilated by the human body. Medicinal plants have long been considered the most critical sources for obtaining natural antioxidants, but more studies are leading to the investigation of other natural sources such as petals (calyces), leaves, or flower stems. It is also noted that commercial antibiotics are losing effectiveness in the presence of increasingly resistant microorganisms, suggesting that the use of appropriate natural extracts could resolve many medical situations. Numerous

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