

PHYTOCHEMICAL SCREENING AND TOTAL POLYPHENOL CONTENT OF AN ALGERIAN PLANT FROM THE ASTERACEAE FAMILY

ZERIMECH Rania^{1*}, GUETTECHE Amina¹, FADEL Hamza¹, MEKKIOU Ratiba¹,
BOUMAZA Ouahiba¹, SEGHIRI Ramdane¹

¹Unité de Valorisation des Ressources Naturelles, Molécules Bioactives et
Analyse Physicochimiques et
Biologiques (VARENBIOMOL), Université des Frères Mentouri, 25000 Constantine, Algeria.

Code CCP 31

Email*: Rania.zerimech@doc.umc.edu.dz

Introduction & Objectives:

This work is about the phytochemical study of a plant belongs to the Asteraceae family which is distributed throughout the world with 200 genera and 2000 species(1), many species of this family are known for remarkable biological activities.

Methodology (Material and methods):

The dried plant was macerated using methanol and water (7/3) to obtain hydromethanolic extract which has been concentrated under vacuum, diluted with water and then extracted with chloroform, ethyl acetate and *n*-butanol. The three obtained extracts were screened for different secondary metabolites using different reagents.

Results and Discussion:

Results showed the presence of important chemical classes such as alkaloids, tannins and flavonoids.

The total polyphenol content (TPC) was also investigated using the Folin ciocalteau method. The obtained results showed that an important amount of polyphenols was observed in the three tested extracts (61.82 ± 4.51 , 284.54 ± 5.87 and 219.48 ± 1.55 , respectively).

Conclusion

The plant tests showed the presence of interesting compounds which made it a target for more phytochemical studies.

Keywords: Phytochemical screening; Asteraceae; polyphenol; TPC.

References

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