

Journal of Pharmaceutical Research International

34(3B): 26-33, 2022; Article no.JPRI.78735

ISSN: 2456-9119

(Past name: British Journal of Pharmaceutical Research, Past ISSN: 2231-2919,

NLM ID: 101631759)

Phytochemical, UV-Visible and FTIR Assessment along with in vitro Antioxidant Activity of Methanolic Extract of Tephrosia purpurea Linn Root

Pranita S. Jirvankar ^{a†}, D. Khobragade ^{a†}, S. Chandewar ^{a†}, A. Pimpale ^{a†*}, R. Gawali ^{a†}, A. Lokade ^{a†}, A. Maske ^{b†} and R. Agrawal ^{b†}

Department of Pharmaceutical chemistry, Datta Meghe College of Pharmacy, Datta Meghe Institute
of Medical Sciences (Deemed to be University), Wardha-442004, Maharashtra, India.
 Bajiraoji Karjekar College of Pharmacy, Sakoli-441802, Maharashtra, India.

Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

Article Information

DOI: 10.9734/JPRI/2022/v34i3B35389

Open Peer Review History:

This journal follows the Advanced Open Peer Review policy. Identity of the Reviewers, Editor(s) and additional Reviewers, peer review comments, different versions of the manuscript, comments of the editors, etc are available here:

https://www.sdiarticle5.com/review-history/78735

Original Research Article

Received 01 November 2021 Accepted 04 January 2022 Published 24 January 2022

ABSTRACT

Aims: The original phytochemical, UV-Visible, and FTIR Spectral estimation of *Tephrosia purpuria* root was the subject of this study. Natural phytoconstituents were all found in methanolic extracts from the root of *Tephrosia purpuria*.

Study Design: Experimental research work.

Methodology: Furthermore, using UV Visible spectrophotometer equipment, the extract was

scanned in the range of 380 to 900 nm, and the characteristic peaks were identified.

Results: The UV-VIS data indicated peaks at 382.70, 413.68, 536.18, 610.37, and 664.61 nm, with absorption values of 2.7930, 2.5932, 0.3114, 0.4185, and 1.5966 respectively. The presence of Natural phytoconstituents is confirmed by FTIR spectra. The findings confirm that this plant has key bioactive elements that are beneficial to our health, indicating that more research is needed.

Conclusion: Natural phytoconstituents were all found in methanolic extracts from the root of Tephrosia purpuria.

aoji Karanje

Sprained 9

†Assistant Professor;

*Corresponding author: E-mail: adityapimpale of mail.com;

Officiating Principal Bajiraoji Karanjekar ollege of Pharmacy, Sakoli