Evaluation of Antioxidant Activity of Methanolic Extract of Leaves of Plant *Boehmeria rugulosa*

Abha Shukla¹ *, Aanchal and R.K. Shukla²  
1. Department of Chemistry, Kanya Gurukul a Campus, Gurukula Kangri Vishwavidyalaya, Haridwar, India.  
2. Department of Chemistry, Gurukula Kangri Vishwavidyalaya, Haridwar-249404, India.

Abstract

*Boehmeria rugulosa* is an important medicinal plant belonging to the Urticaceae family. The aqueous extract of leaves of this plant is used for diabetes and paste obtained from the stem bark has been used as a remedy for bone fractured by the local communities. The present study reports the phytochemical constituents and *in vitro* antioxidant potential of methanolic extract of *B. rugulosa* leaves. Extraction was carried out by using Soxhlet extractor. The extract was screened for the presence of chemically active compounds by standard methods. The results revealed the presence of saponins, tannins, flavonoids, sugars, terpenoids etc. The methanolic extract of leaves exhibited the efficient 1, 1-diphenyl-2-picrylhydrazyl (DPPH) (68.832±0.677µg ml⁻¹) and highest Ferric reducing antioxidant power (440.21±1.498 M/ml, FRAP value =1.982). Therefore, the results indicates that the Boehmeria rugulosa leaves can served as potential antioxidant in food and pharmaceutical industries.

**Keywords:** Urticaceae, Boehmeria rugulosa, phytochemical, DPPH, FRAP etc.