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Antioxidant Assessment and Phytochemical Characterization of Methanolic Extract from Lemna Minor

Lemna minor is a hydrophyte that floats freely and belongs to the duckweed family. Lemna minor (LM) doubles quickly and has the capacity to produce enormous biomasses. Given the significance of antioxidant activity of plants, this study was conducted to assess the antioxidant potential of Lemna minor extract in vitro. Methanol of soluble fraction of defatted Lemna minor powder was tested for antioxidant potential using a battery of in vitro tests. Our study revealed that methanolic extract of Lemna minor exhibits appreciable antioxidant activity as revealed by Ferric reducing antioxidant power (FRAP), 1,1-diphenyl-2-picrylhydrazyl (DPPH) scavenging activity and total phenolic content. Further, mass spectroscopy-based assessment revealed presence of important phenolic acids and flavonoids in Lemna minor. Our study suggests that Lemna minor could be exploited as an important dietary source of antioxidants.

KEYWORDS:

Lemna minor (LM), Lemna minor extract (LME), Radical scavenging assay, Total phenolics, Ferric reduction potential

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