

FREE RADICAL SCAVENGING EFFECT AND PHYTOCHEMICAL ANALYSIS OF LEAVES EXTRACT OF PLECTRANTHUS AMBONICUS

K. Padmalochana

Research Scholar, Department of Biochemistry, Sri Akilandeswari Women's College, Wandiwash, Tamil Nadu, India

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ABSTRACT

*Indian medicinal plants are playing a vital role in the preparation of biomedicine. Most of the herbals are used in siddha medicine for the different pharmacological applications such as antibacterial, antifungal, antioxidant, controlling od diabetes, cardio protective, anticancer and anti-inflammatory activities. In this present investigation, we have used very important medicinal plant karpooravalli (*Plectranthus ambonicus*) for the biomedical applications like free radical scavenging activity. The free radical scavenging activity was conducted by non enzymatic methods, for that we have used the methodologies such as DPPH radical assay, Nitric oxide radical inhibition assay, Superoxide anion scavenging activity, Hydrogen peroxide-scavenging activity, Estimation of lipid peroxidation inhibition, ABTS radical scavenging activity, Hydroxyl radical scavenging assay and Reducing power analyzed. The results are showing good peaks may confirm the activities. Phytochemical screening also conducted for Alkaloids, tannins (Ferric chloride test), saponins, glycosides, flavonoids, protein, steroids, terpenoids, triterpenoids, sugars, and phenol. Finally, the In-vitro anticancer activity against Hep G2 Liver cell line culture analyzed using Assay for cytotoxic activity (MTT assay). The study proves the very good biomedical action of karpooravalli plant leaves extract.*

KEYWORDS: *P. Ambonicus, DPPH, ABTS, Nitricoxide, Superoxide Hydrogen Peroxide, Alkaloids, Plectranthus Amboinicus, Antioxidant Activity, Free Radical Scavenging Activity, Phytochemical Analysis*