

Antioxidant activity of different solvent fraction of ladakhi traditional plant *Artemisia moorcroftiana*

Kaneez Fatima, Rabia Hamid #

Department of Biochemistry, University of Kashmir, Srinagar-190006, India.

Email: rabeyams@yahoo.co.in

Abstract: The aim of this study was to screen various solvent extracts of whole plant of *Artemisia moorcroftiana* display potent antioxidant activity in vitro and in order to find possible sources for future novel antioxidants in food and pharmaceutical formulations.

Whole plant of *Artemisia moorcroftiana* was shed dried and different solvents from nonpolar (hexane) to polar (methanol) were used to get crude extract. Different antioxidant activity assays was performed .DPPH assay, Phosphomolybedate assay, Hydroxyl radical scavenging assay, reducing assay, total phenolic content assay were done.

Phytochemical screening of methanol extracts revealed the presence of alkaloids, phenol, cardiac glycosides, coumarins, flavonoids, saponins, volatile oil tannins and terpenoids. The EC50 values based on the DPPH ($13.153 \pm 1 \mu\text{g/ml}$), Hydrogenperoxide ($33 \pm 1 \mu\text{g/ml}$) and phosphomolybdate ($83 \pm 2 \mu\text{g/ml}$) for methanolic extract shows significant antioxidant activity, While the Hydrogen radical scavenging assay lower showing potential antioxidant properties.