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Sida cordifolia Seed Phytochemical evaluation as an antioxidant and antimicrobial**Hamad Ahmed***Government College University Faisalabad, Pakistan*

Medicinal plants contain clusters of bioactive compounds like alkaloids, flavonoids, tannins, etc. which are used against different degenerative ailments. *Sida cordifolia* has been prescribed in male infertility problems in the local communities. In this study, the ethanolic extract of *Sida cordifolia* seeds was prepared by microwave-assisted extraction (MAE) process. *Sida cordifolia* extract was qualitatively tested for different phytochemicals and the total phenolic content of the extract was calculated in terms of gallic acid equivalent (GAE) per gram of dry extract while the content of flavonoids was determined as quercetin equivalent. The IC₅₀ value were 10.29 and 33.36 in DPPH and FRAP assay respectively. Antioxidant enzymes SOD, CAT, and POD were also measured as 19.46, 38.94, and 4.75 units/mg respectively. At 1000mg/ml it also possesses 13.32 % thrombolytic activity against standard indicative of enhancing blood perfusion to tissues. Antimicrobial activity of *Sida cordifolia* (Riaz-1) against gram-positive and gram-negative strains of bacteria and fungus was also detected against standards. The study results have created an opportunity for researchers and clinical practitioners to treat oxidative stress-related diseases by natural drugs.

Biography

Hamad Ahmed is currently working as Lecturer in the Department of Eastern Medicine, Govt. College University Faisalabad, Pakistan. He is PhD in Eastern Medicine having expertise in clinical trials of natural medicine on animals and humans, Medicinal plant phytochemical evaluation, Antioxidant and Antimicrobial studies.