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(57) Abstract :

The present invention relates to a pharmaceutical composition and method utilizing an ethanolic extract of Asteracantha longifolia for its antioxidant and antimicrobial properties. The extract, obtained through a Soxhlet extraction method, exhibits potent free radical scavenging activity, as demonstrated by DPPH and metal chelation assays, and significant antimicrobial efficacy against bacterial strains including Escherichia coli, Lactobacillus, Enterococcus faecalis, and Streptococcus mutans. Phytochemical analysis of the extract confirms the presence of bioactive compounds such as tannins, flavonoids, terpenoids, and polyphenols, which contribute to its pharmacological activity. The invention further encompasses methods for preparing the extract, evaluating its bioactivity, and applications in treating oxidative stress-related conditions and bacterial infections. This innovation provides a natural, plant-based alternative for developing antioxidant and antimicrobial therapeutics.

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