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(54) Title of the invention : A NOVEL PHARMACEUTICAL COMPOSITION COMPRISING PSIDIUM CATTLEIANUM ROOT EXTRACT FOR ANTIOXIDANT ACTIVITY

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(57) Abstract :

The present invention relates to a novel pharmaceutical composition comprising an extract obtained from the roots of Psidium cattleianum Sabine (family Myrtaceae) for use as an antioxidant agent. The root extract is prepared through successive solvent extraction using petroleum ether, chloroform, ethyl acetate, ethanol, and distilled water employing a Soxhlet apparatus. Preliminary phytochemical screening of the extract reveals the presence of alkaloids, carbohydrates, flavonoids, glycosides, and tannins. The ethanolic fraction demonstrates significant DPPH free radical scavenging activity with percentage inhibition values ranging from 8.76% to 57% at concentrations of 10 to 80 mg/ml. The composition is further characterized by physicochemical parameters including loss on drying (8.50%), total ash (4.10%), acid insoluble ash (0.70%), and extractive values. Chromatographic fingerprinting through TLC and HPTLC has been performed for standardization. The pharmaceutical composition provides a safe, natural, and efficacious antioxidant formulation for the prevention and management of oxidative stress-mediated diseases including cardiovascular disorders, neurodegenerative conditions, diabetes, and cancer.

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