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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : ANTIOXIDANT ACTIVITY OF HYDROALCOHOLIC EXTRACT OF BAUHINIA PURPUREA STEM

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(57) Abstract :

The present invention relates to a novel antioxidant composition derived from hydroalcoholic extract of Bauhinia purpurea stem and its method of preparation. The stem extract obtained through Soxhlet extraction demonstrates significant free radical scavenging activity with 80% DPPH inhibition at 500 mg/mL concentration. The extract contains bioactive compounds including kaempferol, quercetin, quercetin-3-glucoside, β -sitosterol and stigmasterol which contribute to its therapeutic properties. The extraction process yields 8.40% w/w of hydroalcoholic extract exhibiting concentration-dependent antioxidant activity ranging from 25% inhibition at 100 mg/mL to 80% at 500 mg/mL. This standardized extract provides a natural alternative to synthetic antioxidants like BHT and offers potential applications in pharmaceutical formulations for treating oxidative stress-related disorders including diabetes, dysentery, skin diseases and inflammatory conditions. The invention encompasses the extraction methodology, pharmaceutical compositions and therapeutic uses of this valuable herbal preparation

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