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(54) Title of the invention : ANTIOXIDANT ACTIVITY OF ETHYL ACETATE EXTRACT OF HIBISCUS ROSA SINENSIS FLOWERS AND PREPARATION METHOD THEREOF

(51) International classification	:A61K0009200000, A61K0008978900, A61Q0019000000, A61Q0019080000, A61K0009000000	(71) <b>Name of Applicant :</b> <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura Punjab India <b>2)Chitkara Innovation Incubator Foundation</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Satyam Kumar Agrawal</b>
(33) Name of priority country	:NA	<b>2)Monika Sharma</b>
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(57) Abstract :

The present invention relates to a herbal antioxidant composition derived from Hibiscus rosa-sinensis flowers. The composition comprises an ethyl acetate extract rich in phenolic and flavonoid compounds with strong antioxidant activity, confirmed by hydrogen peroxide and hydroxyl radical scavenging assays. The extract is prepared by shade-drying, powdering, defatting with a non-polar solvent, and Soxhlet extraction with ethyl acetate. The extract may be incorporated into oral capsules with fillers, disintegrants, glidants, and lubricants, or into topical hydrogels with a gelling agent, humectant, preservative, chelating agent, and neutralizer at pH 5.0–6.5. The formulations retain antioxidant efficacy and provide stable oral and topical delivery systems for pharmaceutical, nutraceutical, and cosmetic use. Reference Fig 1  
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