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(54) Title of the invention : HAIR GROWTH PROMOTING TOPICAL HERBAL GEL FORMULATION COMPRISING ETHANOLIC EXTRACT OF SENNA ANGUSTIFOLIA LEAVES

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(57) Abstract :

The present invention relates to a topical herbal gel formulation comprising an ethanolic extract of Senna angustifolia leaves for promoting hair growth. The extract is obtained by Soxhlet extraction using 95% ethanol for 72 hours and contains flavonoids, glycosides, tannins, amino acids, and proteins. The extract is incorporated into a Carbopol 934 gel base at 2.5% and 5% w/w concentrations with propylene glycol and methylparaben. Dermal irritation studies per OECD 404 guidelines confirmed the formulation as non-irritant. In vivo studies on C57/BL6 mice demonstrated that the 5% gel formulation initiated hair growth on day 6 versus day 13.8 for control and day 7.07 for minoxidil, and reduced hair growth completion time by 34.75% compared to 22.55% for minoxidil. The invention provides a safe, effective, and economical plant-based alternative to synthetic hair growth agents.

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