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(57) Abstract :

The present invention relates to a stable nanoemulsion formulation for the treatment of skin disorders, combining natural oils, surfactants, and therapeutic active ingredients like curcumin, aloe vera extract, and tea tree oil. The nanoemulsion is prepared using high-energy techniques such as high-pressure homogenization, resulting in nano-sized droplets that enhance skin penetration and bioavailability of the active compounds. The formulation is designed to provide sustained release, ensuring prolonged therapeutic effects. It maintains long-term stability, with no significant changes in particle size, viscosity, or phase separation after three months of storage. The optimized pH, viscosity, and use of preservatives make the product safe for all skin types, including sensitive skin. The invention offers a cost-effective, non-irritating, and versatile solution for various skin disorders, ensuring both efficacy and safety in topical applications.

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