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DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

BITS Pilani
TECHNOLOGY
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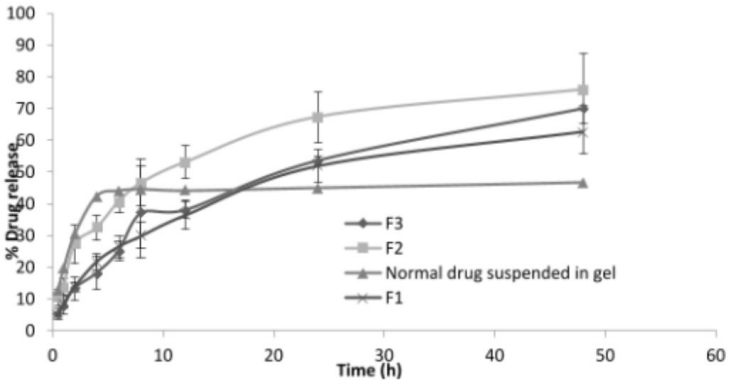
GRANTED

(IN448589)
A lipid-based foam nano emulgel composition for topical application



NEED

Chronic inflammation and skin diseases like eczema, psoriasis, or burns often require effective topical treatments. However, existing gels and creams fail to deliver drugs effectively while avoiding side effects or irritation.

MARKET ANALYSIS

The global pharmaceutical gel market is projected to grow at a CAGR of 7.3%, reaching $8.5B by 2033. Growth is driven by the increasing prevalence of chronic skin conditions and demand for improved drug delivery. [Source: Grand View Research, 2023]

TECHNOLOGY OVERVIEW

This lipid-based foam nano emulgel composition efficiently delivers active pharmaceutical ingredients (APIs) for treating chronic skin conditions. It provides improved drug penetration, controlled release, and reduced irritation, offering a promising solution for better topical therapy.

Target Industries

Pharmaceuticals, Dermatology, Drug Delivery Systems. , Pharmaceutical companies, drug formulation R&D labs, skincare and topical product manufacturers.

TECHNOLOGY KEY FEATURES

Lipid-based formulation, foam nano emulsion, improved drug absorption, reduced irritation, customizable API concentration (0.5-10%), controlled release, 300-3500 cps viscosity, pH 5.0-7.5, stable formulation.

AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 12 (Responsible Consumption and Production)

Read more here

Technology is available for licensing/ co-development.

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