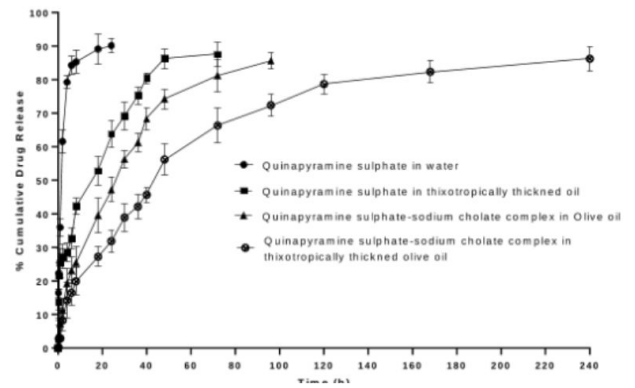


PENDING

(IN202211059070)

## Formulation for delivery of a hydrophilic drug and method of preparation thereof



## NEED

Delivering hydrophilic drugs in a way that ensures controlled release and high drug loading is a major challenge. What if there was a low-cost formulation that could provide both enhanced drug delivery and stability?

## MARKET ANALYSIS

The global drug delivery market is projected to grow at a CAGR of 9.1%, reaching \$295B by 2033. Increasing demand for controlled release and stable formulations is a key market driver. (Source: Global Market Insights)

## TECHNOLOGY OVERVIEW

The invention presents a formulation for hydrophilic drug delivery using an ionic pairing agent and a thixotropic oil base. This system offers high drug loading capacity, protracted release, and stability, providing a cost-effective method for subcutaneous drug administration.

## Target Industries

Pharmaceutical Formulations; Drug Delivery Systems; Injectable Drug Development

## TECHNOLOGY KEY FEATURES

High drug loading capacity; Prolonged drug release; Oil-based thixotropic formulation; Low-cost and simple preparation; Particle size 500-2000 nm

## 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.

Reach out to Prof. Deepak Chitkara, Coordinator, BITS Technology Enabling Centre,

BITS Pilani Contact Details: [tec.bits@pilani.bits-pilani.ac.in](mailto:tec.bits@pilani.bits-pilani.ac.in), 91 1596-255913