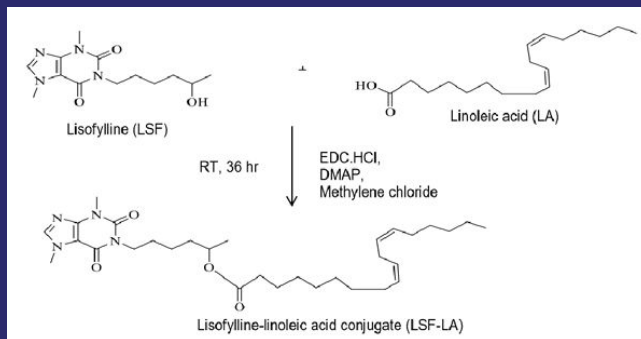


Granted IN389948

# Surfactant-free, self-assembling micelles of fatty acid conjugated to hydrophilic drug and method for preparing the same



## NEED

Existing diabetes therapies have significant limitations like short action duration, risk of hypoglycemia, and need for parenteral administration; lysofylline's high solubility hinders encapsulation.

## SOLUTION

The invention provides surfactant-free, self-assembling micelles of fatty acid conjugated to lysofylline, offering a novel delivery system enhancing drug encapsulation and stability.

## INNOVATION

Innovatively conjugating linoleic acid with the hydrophilic drug lysofylline to form surfactant-free, self-assembling micelles, this method improves drug hydrophobicity and encapsulation efficiency, marking a significant advancement in diabetes treatment delivery systems

## MARKET ANALYSIS

Market: Diabetes Therapeutics

CAGR: Not provided

Potential Indian Clients: Pharmaceutical companies focusing on diabetes treatment, research institutions, hospitals, and diabetic care centers.

## WHY INVEST?

Surfactant-free

Self-assembling micelles

Fatty acid conjugated

Hydrophilic drug



## AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC CO8L
- Domain  
Pharmaceutical Technology

For more information, reach out to (contact person), (designation), (organization) at (email ID) and (phone number)



Prof. Anupama Mittal, Kishan Italiya  
Samjibhai, Samrat Mazumdar, Prof.  
Deepak Chitkara  
Department of, Pharmacy  
BITS Pilani, Pilani Campus

