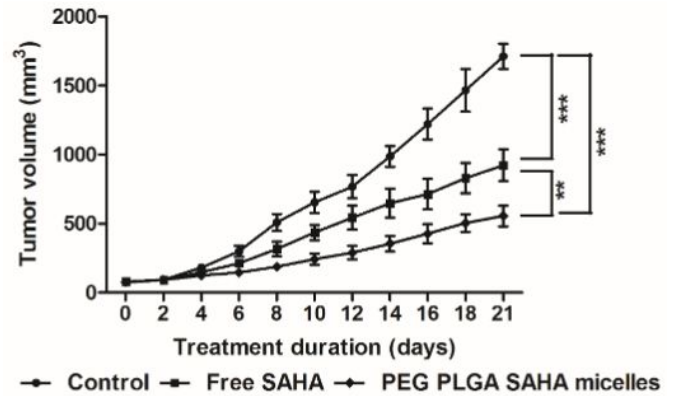




GRANTED

(IN426781)

## A chemotherapeutic composition for treating malignant tumors and method for preparing the same



## NEED

Cancer therapies often suffer from limited drug delivery efficiency and severe side effects. A breakthrough in polymeric micelles promises to significantly enhance the targeted delivery of chemotherapeutic agents, reducing risks.

## MARKET ANALYSIS

The global nanomedicine market is projected to grow at a CAGR of 11.2% from 2023 to 2033, driven by increasing demand for targeted cancer therapies and drug delivery systems. (Source: MarketsandMarkets, 2023)

## TECHNOLOGY OVERVIEW

This invention encapsulates suberoylanilide hydroxamic acid (SAHA) in polymeric micelles made of PEG-PLGA copolymers. The micelles, sized 50-250nm, offer high encapsulation efficiency, ensuring targeted and efficient drug delivery to malignant tumors.

## Target Industries

1) Pharmaceutical companies focused on cancer treatments and advanced drug delivery systems. 2) Biotechnology firms specializing in polymeric micelles and nanomedicine. 3) Healthcare providers seeking targeted drug delivery solutions for oncology.

## TECHNOLOGY KEY FEATURES

1) High encapsulation efficiency (70-100%) of SAHA. 2) Micelles sized 50-250nm for optimal drug delivery. 3) Use of PEG-PLGA copolymers for stable micelle formation. 4) Improved targeting for cancer treatment.

## AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 9 (Industry, Innovation, and Infrastructure), 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, 91 1596-255913

