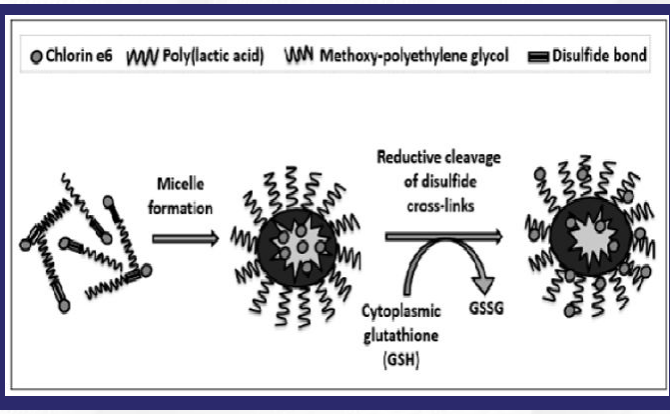
Granted IN364102

A hydrophilic redox-responsive polymeric micelle comprising chlorin e6 for photodynamic therapy



NEED

Existing methods lack efficient delivery of Chlorin e6 (Ce6) to target cancer cells due to poor solubility, hindering effective treatment.

SOLUTION

The invention proposes a polymeric micelle formulation of mPEG-PLA-S-S-Ce6, enhancing solubility and enabling targeted drug release in tumors.

INNOVATION

Development of a method for producing mPEG-PLA-S-S-Ce6 micelles, incorporating a redox-responsive polymeric micelle for enhanced photodynamic therapy of cancer cells.

MARKET ANALYSIS

Market: Cancer Treatment, Pharmaceutical Delivery Systems

CAGR: High, driven by advances in targeted cancer therapies

Potential Indian Clients: Oncology centers, pharmaceutical manufacturers specializing in cancer therapy

WHY INVEST?

Photodynamic therapy

Redox-responsive

Methoxy poly(ethylene glycol)-poly(lactic acid) copolymer

Tumors

AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC C12M
- Domain
  Biomedical Engineering, Photodynamic Therapy

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