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Design, characterization and *in vitro* evaluation of linalool-loaded solid lipid nanoparticles as potent tool in cancer therapy

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Graphical Abstract

Preparation of lipid nanoparticles containing Linalool for delivery to cancer cells.

HIGHLIGHTS

- Linalool (LN) was efficiently encapsulated in solid lipid nanoparticles (SLNs).
- LN loaded SLN showed spherical morphology in a narrow size distribution.
- The three developed formulations showed controlled release of linalool.
- The LN-SLN enhanced the cancer cell inhibition in a time/dose-dependent manner.
- Cellular uptake of SLNs by tumoral cells was observed by fluorescent microscopy.

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