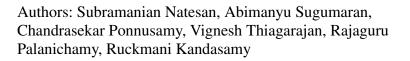
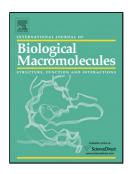
### Accepted Manuscript

Title: Chitosan stabilized camptothecin nanoemulsions: development, evaluation and biodistribution in preclinical breast cancer animal mode





PII:	S0141-8130(16)32673-3
DOI:	http://dx.doi.org/doi:10.1016/j.ijbiomac.2017.05.127
Reference:	BIOMAC 7616
To appear in:	International Journal of Biological Macromolecules
Received date:	29-11-2016
Revised date:	9-5-2017
Accepted date:	20-5-2017

Please cite this article as: Subramanian Natesan, Abimanyu Sugumaran, Chandrasekar Ponnusamy, Vignesh Thiagarajan, Rajaguru Palanichamy, Ruckmani Kandasamy, Chitosan stabilized camptothecin nanoemulsions: development, evaluation and biodistribution in preclinical breast cancer animal mode, International Journal of Biological Macromoleculeshttp://dx.doi.org/10.1016/j.ijbiomac.2017.05.127

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## ACCEPTED MANUSCRIPT

# Chitosan stabilized camptothecin nanoemulsions: development, evaluation and biodistribution in preclinical breast cancer animal mode

Subramanian Natesan <sup>1</sup> \*, Abimanyu Sugumaran <sup>2</sup>, Chandrasekar Ponnusamy <sup>1</sup>, Vignesh Thiagarajan <sup>1</sup>, Rajaguru Palanichamy <sup>3</sup> and Ruckmani Kandasamy <sup>1</sup>

1 Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli – 620 024, Tamilnadu, India.

2 Department of Pharmaceutics, SRM University, SRM Nagar, Kattankulathur - 603 203, Tamil Nadu.

3 Department of Biotechnology, BIT campus, Anna University, Tiruchirappalli – 620 024, Tamilnadu, India.

\*Address for correspondence

Dr. N. Subramanian

Assistant Professor

Department of Pharmaceutical Technology

Bharathidasan Institute of Technology

Anna University, Tiruchirappalli - 620 024

Tamil Nadu, India.

Tel: +91-9965630370

Fax: 0431-2407999

Email: natesansubbu@gmail.com

#### ABSTRACT

Clinical use of camptothecin (CPT) is hindered due to its poor water and oil solubility, active lactone ring instability and non-targeted toxicity. Recently we reported formulation of camptothecin microemulsions with increased solubility for the improved treatment of breast cancer. In this research chitosan stabilized camptothecin nanoemulsions (CHI-CPT-NEs) were formulated improve the cancer targeting efficiency of CPT. The developed NEs were characterized

Download English Version:

# https://daneshyari.com/en/article/5511597

Download Persian Version:

https://daneshyari.com/article/5511597

Daneshyari.com