



3.4.3

Number of Patents Published / Awarded 2016

Galgotias University

Plot No. 2, Yamuna Expressway,
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3.4.3 Number of Patents published/awarded during the last five years (10)

3.4.3.1: Total number of Patents published/awarded year wise during the last five years

Name of the Teacher	Patent Number	Title of the patent	Year of Award / publish of patent
Amit Singh Prof. Pramod Kumar Sharma Dr Dipak Kanti Majumdar	201611019323	FORMULATION OF NOVEL CARRIER SYSTEMS(LIPOSOMES, NIOSOMES, NANOSPHERES) FOR THE TREATMENT OF FUNGAL INFECTIONS	2016



(<http://ipindia.nic.in/index.htm>)



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Patent Search

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Abstract:

In the present study we were able to encapsulate fluconazole in vesicles like liposomes, niosomes and PLGA-nanospheres. The observed responses were in close agreeeme the predicted value of optimized formulation that demonstrated the feasibility of the optimization procedure in developing vesicles and nano-sized formulations. The opti designed systems have been found reasonably well in their characteristics like size, shape, entrapment, loading, polydispersity index, stability, microbiological assay, ex-vivo in-vivo performance.

Complete Specification

FIELD OF THE INVENTION

This invention relates to the novel drug delivery systems such as liposomes, niosomes and nanospheres which were able to deliver sustained release of fluconazole with improved, Cmax and bioavailability.

BACKGROUND OF THE INVENTION

The most desirable and convenient method for drug administration is oral route but due to few limitations related to this route led to research on some alternative routes and delivery systems. Fluconazole is widely used for treatment of fungal infections. Several classes of antifungal gave been employed in candidiasis treatment, but patients with advanced immunodeficiency can present unsatisfactory results after therapy. In these cases, high doses and frequency of drugs or the use of multiple agents of conventional tablet, capsule, cream and solution forms are used and hence increasing the risk of serious side effects and less patient's compliance.

Liposome, niosome and nanospheres of drug formulations have been reported to have good accumulation of drug at the administration site (thus improving enhanced transdermal delivery and therapeutic efficacy) and to have fewer side effects than plain formulations. These systems are also

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