

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 53/2021
ISSUE NO. 53/2021

शुक्रवार
FRIDAY

दिनांक: 31/12/2021
DATE: 31/12/2021

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : DEVELOPMENT OF SIMVASTATIN NIOSOME TO INCREASE BIOAVAILABILTY

<p>(51) International classification :A61K0031366000, A61K0009000000, C07D0309300000, A61K0009127000, A61K0009200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. Diksha Address of Applicant :Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244002. ----- 2)Dr. Navneet Verma 3)Dr. Munesh Mani 4)Dr. Prevesh Kumar 5)Megha Yadav Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Diksha Address of Applicant :Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244002. ----- 2)Dr. Navneet Verma Address of Applicant :Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244002. ----- 3)Dr. Munesh Mani Address of Applicant :Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244002. ----- 4)Dr. Prevesh Kumar Address of Applicant :Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244002. ----- 5)Megha Yadav Address of Applicant :Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244002. -----</p>
---	---

(57) Abstract :

The present invention relates to preparation of simvastatin niosomes to enhance its solubility and bioavailability. Simvastatin is derived synthetically from fermentation products of *Aspergillus terreus*. It is used to treat hyperlipidaemia. Simvastatin when hydrolysed produces beta, delta, dihydroxy acid which is similar to HMG – CoA (Hydroxylmethyl glutaryl CoA) in structure. So hydrolysed simvastatin competes with HMG – CoA for HMG – CoA reductase. simvastatin niosomes were prepared by using hand shaking method. From the result of the experiment, it may be concluded that formulation F2 containing 2:1 (Span 60: Cholesterol) was found to be high % of entrapment efficiency and desired sustained release of simvastatin. The in-vivo study value it was found that the bioavailability of simvastatin niosome was greater than the plain simvastatin drug due to the decrease in particle size.

No. of Pages : 19 No. of Claims : 2