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(71)Name of Applicant :

1)Ms. Ramandeep Kaur

Address of Applicant :Assistant Professor, Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----

2)Ms. Priyal Parashar

3)Prof. (Dr.) Navneet Verma

4)Dr. Sushil Kumar

5)Dr. Munesh Muni

6)Ms. Rita Yadav

7)Mr. Anuj Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms. Ramandeep Kaur

Address of Applicant :Assistant Professor, Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----

2)Ms. Priyal Parashar

Address of Applicant :IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

3)Prof. (Dr.) Navneet Verma

Address of Applicant :Dean, Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

4)Dr. Sushil Kumar

Address of Applicant :Director (Professor), School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

5)Dr. Munesh Muni

Address of Applicant :Professor, Pharmacy academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

6)Ms. Rita Yadav

Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

7)Mr. Anuj Kumar

Address of Applicant :Assistant professor, Sainik Group of Institution, Prayagraj, Uttar Pradesh, Pin Code: 221505 Moradabad -----

(57) Abstract :

The present invention relates to the formulate and evaluation of cross linking based inter penetrating polymer network using chitosan and some other polymers like Poly acrylic acid, poly vinyl alcohol, poly vinyl pyrrolidone. The prepared formulations were evaluated for different parameters like % drug Entrapment Efficiency, drug content, in-vitro drug release, the UV spectrophotometry, Fourier Transmitted infrared spectroscopy (FTIR), particle size determination, scanning electron microscopy(SEM). The best achievement from the formulations was PAA1 and PVP3 which has a great drug release and Entrapment Efficiency in comparison to others, also these The both formulations has an efficient entrapment of 46% and 64.10% and % cumulative drug release was 82% and 89% respectively also the particle size determination showed that the multiparticulates size range from 46 µm to 133µm.

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