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(71)Name of Applicant :

1)Mr. Ashwin Kumar Saxena

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

2)Dr. Navneet Verma

3)Dr. Sushil Kumar

4)Dr. Mukesh Kumar Singh

5)Mr. Aditya Sharma

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Ashwin Kumar Saxena

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

2)Dr. Navneet Verma

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

3)Dr. Sushil Kumar

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

4)Dr. Mukesh Kumar Singh

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

5)Mr. Aditya Sharma

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

(57) Abstract :

The present invention relates to the formulation and evaluation of liquid in- situ gelling system to obtain the oral sustained drug delivery system of Piroxicam. The liquid in-situ gelling formulations capable of floating on simulated gastric fluid (SGF) have been assessed for their potential for the site-specific sustained delivery. The formulations were a dilute suspension of Piroxicam in Gellan gum/Sodium alginate (alone or in combination) solution in deionized water. Calcium carbonate was used as buoyancy imparting as well as crosslinking agent. Further effect of incorporation of Type A/B gelatin and calcium chloride on release of Piroxicam from Gellan/Sodium Alginate formulations were also investigated. Maximum retardation of drug release was observed with in-situ gel formulations. The in vitro release of Piroxicam from in-situ gelling gellan/sodium alginate formulations followed both Korsmeyer and Higuchi kinetics. Wherein the process of preparation of the preparation process is simple, the preparation is stable and reliable in quality.

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