



Sanjivani Rural Education Society's

Sanjivani College of Pharmaceutical Education & Research

NBA and NAAC 'A' Accredited, ISO 9001:2015 Certified

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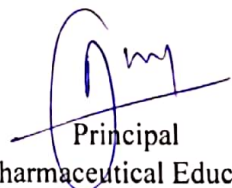
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Sun Pharma Science Foundation Research Awards 2021

Citation on the Research Work of the Applicant duly signed by the Nominator

Self-microemulsifying drug delivery systems are widely used to address water-solubility issues of drug candidates, but with these systems, there is a chance of drug precipitation due to migration of the surfactant in the shell of capsule. Piroxicam is a class II drug that exhibits poor solubility and high permeability. Efforts were made to develop piroxicam self-microemulsifying mouth dissolving fi lm using a polymer such as hydroxylpropyl methylcellulose as a fi lm-forming polymer and optimized using response surface methodology of Design-Expert® software version 10. A sublingual self-microemulsifying mouth dissolving fi lm was prepared that disintegrated in 26 seconds. The *in vitro* drug release of self-microemulsifying mouth dissolving fi lm was $98.04 \pm 0.016\%$ in 5 min. The newly developed sublingual self-microemulsifying mouth dissolving fi lm provided rapid absorption of piroxicam ($t_{max} \sim 2$ h) and suitable for providing a rapid onset of analgesic action.

I recommend her for Sun Pharma Science Foundation Research Awards 2021.



Principal

Sanjivani College of pharmaceutical Education and research

VISION- OUR VISION IS TO BECOME A CENTER OF EXCELLENCE FOR EDUCATION, RESEARCH AND TRAINING.

MISSION- Our mission is to impart high quality technical education and training in pharmacy discipline to make professionally competent, ethically sound and skilled pharmacists to cater the needs of society, especially competitiveness.