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(54) Title of the invention : FORMULATION AND OPTIMIZATION OF TASTE-MASKED MOUTH DISSOLVING TABLETS OF BITTER ROSUVASTATIN

<p>(51) International classification :A61K0009000000, A61K0009160000, A61K0009200000, A61K0009500000, H04W0024100000</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application :NA</p> <p>Number :NA</p> <p>Filing Date</p> <p>(62) Divisional to Application :NA</p> <p>Number :NA</p> <p>Filing Date</p>	<p>(71) Name of Applicant :</p> <p><b>1)Dr. Ankur Singh</b> Address of Applicant :Associate Professor, SOS School of Pharmacy, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p><b>2)Mr. Prashant Kumar Gupta</b></p> <p><b>3)Mr. Amit Kumar</b></p> <p><b>4)Mr. Jatin Agarwal</b></p> <p><b>5)Dr. Nikhil Singh</b></p> <p><b>6)Ms Sheetal Singh</b></p> <p><b>7)Ms Mandvi Tiwari</b></p> <p><b>8)Ms Akanshi</b></p> <p><b>9)Mr Rohit Kumar</b></p> <p><b>10)Mr. Surya Prakash</b></p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72) Name of Inventor :</p> <p><b>1)Dr. Ankur Singh</b> Address of Applicant :Associate Professor, SOS School of Pharmacy, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p><b>2)Mr. Prashant Kumar Gupta</b> Address of Applicant :Assistant Professor, Moradabad Educational Trust, Faculty of Pharmacy, Moradabad, Uttar Pradesh, Pin Code: 244001 -----</p> <p><b>3)Mr. Amit Kumar</b> Address of Applicant :Assistant Professor, MIT College of Pharmacy, MIT Campus, (Affiliated to Dr. A.P.J. Abdul Kalam Technical University), Ram Ganga Vihar Phase-II, Moradabad, Uttar Pradesh, Pin Code: 244001 -----</p> <p><b>4)Mr. Jatin Agarwal</b> Address of Applicant :Assistant Professor, Department of Pharmaceutics, Moradabad Educational Trust, Group of Institutions, Faculty of Pharmacy, Moradabad, Uttar Pradesh, 244001, India. -----</p> <p><b>5)Dr. Nikhil Singh</b> Address of Applicant :Assistant Professor, Moradabad Educational Trust, Faculty of Pharmacy, Moradabad, Uttar Pradesh, Pin Code: 244001 -----</p> <p><b>6)Ms Sheetal Singh</b> Address of Applicant :Associate Professor, RVIP College, Bijnor, Uttar Pradesh, Pin Code: 246701 -----</p> <p><b>7)Ms Mandvi Tiwari</b> Address of Applicant :Associate Professor, Shambhunath Institute Of Pharmacy Prayagraj, 205k/9k/2t Chakiya Prayagraj Uttar Pradesh, Pin Code: 211016 -----</p> <p><b>8)Ms Akanshi</b> Address of Applicant :Assistant Professor, RVIP, Bijnor, Uttar Pradesh, Pin Code: 246701 -----</p> <p><b>9)Mr Rohit Kumar</b> Address of Applicant :Assistant Professor, Shri Sai College of Pharmacy, Prayagraj, 149/131 Rani Mandi, Prayagraj, Uttar Pradesh, Pin Code: 211003 -----</p> <p><b>10)Mr. Surya Prakash</b> Address of Applicant :Assistant Professor, Shri Sai College of Pharmacy, Prayagraj, 149/131 Rani Mandi, Prayagraj, Uttar Pradesh, Pin Code: 211003 -----</p>
	(57) Abstract :
	The present invention relates to the formulation of a mouth dissolving tablet (MDT) of Rosuvastatin with improved taste masking. Due to the drug's intense bitterness, various coating strategies using polymers such as HPMC, HPC, and Sepifilm were explored through Rapid Mixer Granulation (RMG) and Fluidized Bed Granulation (FBG) techniques. Sweeteners like sucralose and sodium chloride were incorporated to enhance palatability. Among the methods, FBG provided more uniform and spherical granules with minimal aggregation, improving coating efficiency. Multiple trials were conducted with varying polymer concentrations to identify the optimal combination for effective taste masking and rapid disintegration. The final formulation demonstrated excellent taste masking, rapid mouth dissolution, and stability, making it suitable for patients with swallowing difficulties, including children and the elderly. This optimized MDT provides an effective, patient-friendly oral drug delivery system for Rosuvastatin.
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