

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 05/2023
ISSUE NO. 05/2023

शुक्रवार
FRIDAY

दिनांक: 03/02/2023
DATE: 03/02/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : FORMULATION DEVELOPMENT AND OPTIMIZATION OF ORAL DISPERSIBLE TABLETS OF ANTIHYPERTENSIVE DRUG

<p>(51) International classification :A61K0009200000, A61K0009000000, A61K0009700000, A61K0009280000, G06Q0010040000</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 :</p> <p>1)Mr. Arvind Raghav Address of Applicant :Assistant Professor ,RSD Academy College of Pharmacy ,Moradabad, Uttar Pradesh ,244001,India Moradabad -----</p> <p>2)Dr Vijay Sharma</p> <p>3)Prof (Dr.) Sushil Kumar</p> <p>4)Mr. Ashish Singh Chauhan</p> <p>5)Ms. Km. Anjali</p> <p>6)Ms. Km. Kalpana</p> <p>7)Ms. Hareem Fatima</p> <p>8)Mr. Gurjeet Singh</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Arvind Raghav Address of Applicant :Assistant Professor ,RSD Academy College of Pharmacy ,Moradabad, Uttar Pradesh ,244001,India Moradabad -----</p> <p>2)Dr Vijay Sharma Address of Applicant :Associate Professor ,Faculty of Pharmacy, IFTM University ,Moradabad, Uttar Pradesh ,244102 ,India Moradabad -----</p> <p>3)Prof (Dr.) Sushil Kumar Address of Applicant :Director, School of Pharmaceutical Sciences ,IFTM University ,Moradabad, Uttar Pradesh ,244102,India Moradabad -----</p> <p>-</p> <p>4)Mr. Ashish Singh Chauhan Address of Applicant :Assistant Professor ,RSD Academy College of Pharmacy ,Moradabad, Uttar Pradesh ,244001,India Moradabad -----</p> <p>5)Ms. Km. Anjali Address of Applicant :Assistant Professor,RSD Academy College of Pharmacy ,Moradabad, Uttar Pradesh ,244001,India Moradabad -----</p> <p>6)Ms. Km. Kalpana Address of Applicant :Assistant Professor ,Maharaja Agrasen College of Pharmacy ,Gajraula, Amroha, Uttar Pradesh ,244235,India Gajraula -----</p> <p>7)Ms. Hareem Fatima Address of Applicant :Assistant Professor, RSD Academy College of Pharmacy ,Moradabad, Uttar Pradesh ,244001,India Moradabad -----</p> <p>8)Mr. Gurjeet Singh Address of Applicant :Ph.D., Scholar, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh ,244102,India Moradabad -----</p> <p>-</p>
---	---

(57) Abstract :

The present invention relates to the Formulation Development and Optimization of Oral Dispersible Tablets of Antihypertensive drug. Formulation and optimization of tablets were done by using the computer optimization technique. Optimization of ODTs was done by considering the concentration of binder (HPMC) and super disintegrant (Kyron T 314) as independent variables whereas Wetting time (WT), friability (Fr), and amount of drug release in 15 min (Q15) as dependent variables. Response surface plots and contour plots were drawn, and optimum formulations were selected by overlay plot prepared by design expert software The overlay plot was designed by keeping the value of WT (11 –30.22 sec), Fr (0.70982 – 1), and Q15 (93.81 – 99.39 %). Validation of optimization study indicated a very high degree of prognostic ability of response surface methodology. Hence, optimized formulation batches were formulated by proper balancing of concentration of independent variables to attain desired dependent response using 32 CCD.

No. of Pages : 22 No. of Claims : 5