

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 11/2026
ISSUE NO. 11/2026

शुक्रवार
FRIDAY

दिनांक: 13/03/2026
DATE: 13/03/2026

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : SUSTAINED RELEASE GASTROPROTECTIVE TABLETS USING PECTIN AND FENUGREEK SEED MUCILAGE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61K9/20, A61K9/22, A61K9/28, A61K9/24, A61K9/30, A61K31/4439, A61K36/48, A61K47/26</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:</p> <p>:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Navneet Verma Address of Applicant :Professor, Pharmacy Academy, Faculty of Pharmacy, IFTM University, Moradabad 244102, India Uttar Pradesh India</p> <p>2)Prof. (Dr.) Bhoomika</p> <p>3)Prof. Archana Shaha</p> <p>4)Dr. B. Naveena</p> <p>5)Ms. Huzaifa</p> <p>6)Priyanka Bhardwaj</p> <p>7)Dr. Falgun Gunvantray Dhabaliya</p> <p>8)Dr. Antesh Kumar Jha</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Navneet Verma</p> <p>2)Prof. (Dr.) Bhoomika</p> <p>3)Prof. Archana Shaha</p> <p>4)Dr. B. Naveena</p> <p>5)Ms. Huzaifa</p> <p>6)Priyanka Bhardwaj</p> <p>7)Dr. Falgun Gunvantray Dhabaliya</p> <p>8)Dr. Antesh Kumar Jha</p>
--	--	---

(57) Abstract :

The present invention relates to sustained release gastroprotective tablet formulations comprising pectin and fenugreek seed mucilage as natural polymeric matrix-forming agents. The invention provides novel tablet compositions utilizing the synergistic combination of pectin derived from citrus or apple sources and galactomannan-rich fenugreek seed mucilage extracted from *Trigonella foenum-graecum* to achieve controlled drug release over eight to twenty-four hours. The formulations comprise pectin in concentrations of ten to forty percent and fenugreek mucilage in concentrations of five to thirty percent by weight, along with therapeutically effective amounts of gastroprotective active pharmaceutical ingredients and pharmaceutically acceptable excipients. The tablets exhibit excellent swelling characteristics, robust matrix integrity, and mucoadhesive properties that enhance gastric retention and therapeutic efficacy. The invention also provides a wet granulation-based manufacturing process scalable and compatible with conventional pharmaceutical production equipment. The tablets demonstrate superior drug release kinetics following the Higuchi diffusion model and maintain stability under accelerated storage conditions.

No. of Pages : 12 No. of Claims : 10