

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 22/2026
ISSUE NO. 22/2026

शुक्रवार
FRIDAY

दिनांक: 29/05/2026
DATE: 29/05/2026

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : HPTLC FINGERPRINTING FOR QUANTITATIVE STANDARDIZATION OF QUERCETIN IN ETHANOLIC EXTRACT OF AEGLE MARMELOS LEAVES

<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>:G01N 30/90, G01N 30/02, G01N 30/94, G01N 30/88, G01N 33/94</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)Ms. Richa Saxena Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University, Moradabad, UP-244102 Uttar Pradesh India</p> <p>2)Ms. Tahira Sultan</p> <p>3)Ms. Srishti Goyal</p> <p>4)Dr. Sushil Kumar</p> <p>5)Dr. Mhaveer singh</p> <p>6)Ms. Sharmistha Singh</p> <p>7)Mr. Apoorv Rastogi</p> <p>8)Ms. Neha Rahi</p> <p>(72)Name of Inventor :</p> <p>1)Ms. Richa Saxena</p> <p>2)Ms. Tahira Sultan</p> <p>3)Ms. Srishti Goyal</p> <p>4)Dr. Sushil Kumar</p> <p>5)Dr. Mhaveer singh</p> <p>6)Ms. Sharmistha Singh</p> <p>7)Mr. Apoorv Rastogi</p> <p>8)Ms. Neha Rahi</p>
--	---	---

(57) Abstract :

The present invention relates to a validated High-Performance Thin-Layer Chromatography method for qualitative fingerprinting and quantitative densitometric estimation of quercetin in ethanolic leaf extract of *Aegle marmelos* (Linn.) Correa (Rutaceae). The method uses precoated silica gel 60 F254 HPTLC plates (10 × 10 cm) with ethyl acetate:acetonitrile (3:2) as mobile phase. Samples are applied as 8 mm bands using a Camag Linomat 5 applicator and developed to 80 mm at 25 ± 2°C in a twin-trough chamber. Densitometric scanning is performed using a Camag TLC Scanner. A calibration range of 100–800 ng/band shows excellent linearity (r^2 0.99). Quercetin is identified at $R_f \approx 0.51$, with a quantified content of 248.54 ng per applied extract volume. The method offers a reliable and cost-effective approach for phytochemical fingerprinting, authentication, and quality control..

No. of Pages : 15 No. of Claims : 10