

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 49/2025
ISSUE NO. 49/2025

शुक्रवार
FRIDAY

दिनांक: 05/12/2025
DATE: 05/12/2025

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511097059 A

(19) INDIA

(22) Date of filing of Application :08/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : Neuroprotective Effect of Ethanolic Leaves Extract of Madhuca indica L. on Experimental Rats

(51) International classification	:A61P0025280000, A61P0025000000, A61P0025240000, A23L0033105000, G01N0033500000	(71)Name of Applicant : 1)Mr. Vidhan Chand Bala Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University, Moradabad 244102, Uttar Pradesh, India Moradabad Uttar Pradesh India 2)Mrs Bhawna Diwakar 3)Mr. Arvind Kumar Patel 4)Mr. Amit Kumar 5)Mr. Sunil Kumar Tiwari 6)Dr. Sushil Kumar
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Vidhan Chand Bala 2)Mrs Bhawna Diwakar 3)Mr. Arvind Kumar Patel 4)Mr. Amit Kumar 5)Mr. Sunil Kumar Tiwari 6)Dr. Sushil Kumar
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a neuroprotective ethanolic extract of Madhuca indica leaves (MLE) prepared by Soxhlet extraction using ethanol or hydroalcoholic solvents. The extract contains bioactive compounds such as flavonoids, sterols, alkaloids, amino acids, carbohydrates, and tannins. In animal models, MLE demonstrated significant neuroprotective activity, improving memory and cognitive function in stress-induced and scopolamine-induced amnesia models. It exhibited anti-stress, anti-cataleptic, and nootropic effects, as shown by enhanced performance in the immobilization stress test, elevated plus maze test, and Morris water maze test. This extract presents a safe, effective, and cost-effective alternative for treating neurodegenerative disorders like Alzheimer's disease, dementia, and memory impairment, potentially enhancing the effects of existing medications.

No. of Pages : 14 No. of Claims : 10