

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 52/2025
ISSUE NO. 52/2025

शुक्रवार
FRIDAY

दिनांक: 26/12/2025
DATE: 26/12/2025

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.20251111397 A

(19) INDIA

(22) Date of filing of Application :14/11/2025

(43) Publication Date : 26/12/2025

(54) Title of the invention : ETHANOLIC EXTRACT OF RAPHANUS SATIVUS LINN. FOR ANTIAMNESIC AND NEUROPROTECTIVE ACTIVITY

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(57) Abstract :

The present invention relates to a novel herbal formulation prepared from the ethanolic extract of Raphanus sativus Linn. (EERS) exhibiting significant anti-amnesic and neuroprotective activity. The extract was obtained through sequential Soxhlet extraction using solvents of increasing polarity, with ethanol yielding the highest concentration of phytoconstituents. Phytochemical screening confirmed the presence of flavonoids, phenolics, alkaloids, amino acids, and vitamin C. The extract was evaluated in scopolamine-induced amnesic rats using the Novel Object Recognition and Y-Maze tests, showing dose-dependent improvement in memory and learning comparable to donepezil. The invention provides a safe, plant-based therapeutic composition for the prevention and management of amnesia and cognitive impairment, which can be formulated into capsules, tablets, or syrups for oral administration.

No. of Pages : 16 No. of Claims : 10