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(57) Abstract :
The present invention relates to an ethanolic extract derived from the peel of Raphanus sativus (EERS), prepared by sequential Soxhlet extraction and characterized by a phytochemical profile encompassing alkaloids, flavonoids, phenolic compounds, steroids, and carbohydrates, yielding 8.4 percent of starting material. The invention discloses the neuroprotective and antiamnesic properties of EERS evaluated in Wistar albino rats with scopolamine-induced amnesia using the Morris Water Maze test and biochemical assays for acetylcholinesterase activity and malondialdehyde levels. Oral administration of EERS at doses of 200 mg/kg and 400 mg/kg for fourteen days produced dose-dependent, statistically significant improvements in spatial learning and memory, reduction of escape latency, and increased time in the target quadrant. Biochemical analysis confirmed that EERS significantly inhibited AChE activity levels in brain tissue, with the 400 mg/kg dose producing results. The dual mechanism of action comprising acetylcholinesterase inhibition and antioxidant activity underpins the neuroprotective potential of EERS.

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