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(54) Title of the invention : EXPLORING MORINGA OLEIFERA AS A NATURAL INTERVENTION FOR DEMENTIA TREATMENT

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(57) Abstract :

The present invention relates to a hydroalcoholic extract of *Moringa oleifera* Lam. leaves, prepared by maceration in a 70:30 ethanol-water solvent system, and its use as a natural nootropic and anti-amnesic agent for the management of dementia and Alzheimer's disease. The extract, designated HAEMO, is rich in polyphenols, flavonoids, glucosinolates, and isothiocyanates that collectively confer antioxidant, anti-inflammatory, and cholinergic modulatory activities. Pharmacological evaluation in scopolamine-induced amnesic Wistar rats using the Elevated Plus Maze Test demonstrated a statistically significant reduction in transfer latency at 100 mg/kg (P less than 0.001) and 200 mg/kg (P less than 0.01), indicating improvement in learning memory. The Morris Water Maze Test confirmed significant reduction in escape latency at 100 mg/kg (P less than 0.001), indicating enhanced spatial memory. The extract is non-toxic up to 2000 mg/kg body weight. HAEMO presents a safe, efficacious, and economically viable plant-based therapeutic candidate for cognitive disorders.

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