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(54) Title of the invention : Nootropic Activity of Hydro Alcoholic Extract of Amaranthus Tricolor L. Leaves on Experimental Animals

<p>(51) International classification :A61P0025280000, A61P0025000000, A61K0036210000, A23L0033105000, A23L0033100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)IFTM University Address of Applicant :IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p> <p>2)MR. VIDHAN CHAND BALA 3)DR. SUSHIL KUMAR 4)DR. RISHI KUMAR 5)MRS. REENI DEVI 6)MR. ASHWANI SAINI 7)DR MUKESH KUMAR SINGH 8)MR. AMIT KUMAR 9)DR. SUNIL KUMAR TIWARI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MR. VIDHAN CHAND BALA Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University. Moradabad Uttar Pradesh, India 244102 Moradabad -----</p> <p>2)DR. SUSHIL KUMAR Address of Applicant :Professor & Director, School of Pharmaceutical Sciences, IFTM University. Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p> <p>3)DR. RISHI KUMAR Address of Applicant :Associate Professor, School of Pharmacy, Raffles University Neemrana, Alwar, Rajasthan, India, 301705 Alwar -----</p> <p>4)MRS. REENI DEVI Address of Applicant :Assistant Professor School of Pharmacy, Raffles University Neemrana, Alwar, Rajasthan, India, 301705, Alwar Rajasthan, India Alwar -----</p> <p>5)MR. ASHWANI SAINI Address of Applicant :Scholar, School of Pharmacy, Raffles University Neemrana, Alwar, Rajasthan, India, 301705, Alwar Rajasthan, India 301705 Alwar -----</p> <p>6)DR MUKESH KUMAR SINGH Address of Applicant :Associate Professor Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, India, Pin 244102, Moradabad Uttar Pradesh, India 244102 Moradabad -----</p> <p>7)MR. AMIT KUMAR Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University. Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p> <p>8)DR. SUNIL KUMAR TIWARI Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University. Moradabad, Uttar Pradesh, India 244102 Moradabad -----</p>
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(57) Abstract :

The present invention relates to the nootropic activity of a hydro-alcoholic extract derived from the leaves of Amaranthus tricolor L. The extract, rich in flavonoids, alkaloids, tannins, carbohydrates, proteins, amino acids, steroids, and sterols, demonstrates significant cognitive-enhancing effects in experimental models. The invention includes a pharmaceutical composition comprising this extract for the treatment and management of neurodegenerative disorders, including Alzheimer's disease and dementia. The hydro-alcoholic extract is prepared through sequential solvent extraction using petroleum ether followed by hydro-alcoholic solvents. The nootropic activity was evaluated using scopolamine-induced amnesia in animal models via the Elevated Plus Maze (EPM) and Morris Water Maze (MWM) tests, showing dose-dependent improvements in memory and learning. The invention provides a natural, effective, and safe alternative to conventional nootropic drugs, reducing adverse effects and enhancing memory retention and cognitive functions.

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