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(54) Title of the invention : ANTI-AMNESIC AND NEUROPROTECTIVE EFFECTS OF AVERRHOA CARAMBOLA LEAF EXTRACT

<p>(51) International classification :A61P0025280000, A61K0036185000, A61P0025000000, G03G0015080000, A61B0005374000</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)Mr. Dinesh Kumar Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -</p> <p>-----</p> <p>2)Dr. Asheesh Kumar Gupta 3)Dr. Sushil Kumar 4)Dr. Navneet Verma 5)Mr. Arabind Kumar 6)Mr. Anesh Sagar 7)Mr. Kavendra Singh 8)Mr. Rajesh Saini 9)Mr. Raj Kumar Singh Bharti</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Dinesh Kumar Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -</p> <p>-----</p> <p>2)Dr. Asheesh Kumar Gupta Address of Applicant :Professor, School of Pharmaceutical Sciences, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>-----</p> <p>3)Dr. Sushil Kumar Address of Applicant :Professor, School of Pharmaceutical Sciences, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>-----</p> <p>4)Dr. Navneet Verma Address of Applicant :Professor, Pharmacy Academy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p> <p>5)Mr. Arabind Kumar Address of Applicant :Principal, Kalka Pharmacy Institute for Advanced Studies, Partapur Bypass Road Meerut, Uttar Pradesh, Pin Code: 250103. -----</p> <p>-</p> <p>6)Mr. Anesh Sagar Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -</p> <p>-----</p> <p>7)Mr. Kavendra Singh Address of Applicant :Lecturer, Chiranjilal College of Education, Dagroli Hasanpur, Uttar Pradesh, Pin Code: 244241 -----</p> <p>8)Mr. Rajesh Saini Address of Applicant :Assistant Professor, Yogendra Nath Saxena College of Pharmacy, Rampur Bhoor Road Hasanpur, Uttar Pradesh, Pin Code: 244241. -----</p> <p>-----</p> <p>9)Mr. Raj Kumar Singh Bharti Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. -</p> <p>-----</p>
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(57) Abstract :

The present invention relates to on developing a standardized ethanolic extract of Averrhoa carambola (EEAC) leaves to address memory impairments and neurodegenerative disorders. The extract is rich in phenolic and flavonoid compounds, as confirmed through phytochemical screening and quantitative analysis. Preclinical evaluations, including behavioral, biochemical, and histopathological studies, demonstrated significant anti-amnesic and neuroprotective efficacy in experimental models. Acute oral toxicity studies confirmed the safety of EEAC up to 2000 mg/kg. The extract's neuroprotective properties are linked to its antioxidant and bioactive phytoconstituents. EEAC provides a natural, cost-effective, and safe alternative for managing amnesia and neurodegenerative conditions, offering a promising approach for therapeutic applications in cognitive disorders.

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