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(54) Title of the invention : PHYTOCHEMICAL AND PHARMACOLOGICAL EVALUATION OF ETHANOLIC LEAF EXTRACT OF VITIS VINIFERA FOR NOOTROPIC ACTIVITY

<p>(51) International classification :A61K0036870000, A23L0033105000, A61P0025280000, A61Q0019080000, A61P0039060000</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, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. ----- 2)Ms. Kavya Vishnoi 3)Dr. Sushil Kumar 4)Dr. Navneet Verma 5)Mr. Arabind Kumar 6)Mr. Anesh Sagar 7)Ms. Rinki Sharma 8)Mr. Rajesh Saini 9)Mr. Ajay Singh 10)Mrs. Ambika Shakya Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Dinesh Kumar Address of Applicant :Assistant Professor, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. ----- 2)Ms. Kavya Vishnoi Address of Applicant :Assistant Professor, Prathviraj Chauhan Institute of Medical Sciences, Dhampur, Bijnor, Uttar Pradesh, Pin Code: 246761. ----- 3)Dr. Sushil Kumar Address of Applicant :Professor, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. ----- 4)Dr. Navneet Verma Address of Applicant :Professor, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. ----- 5)Mr. Arabind Kumar Address of Applicant :Principal, Kalka Pharmacy Institute for Advanced Studies, Partapur Bypass Road Meerut, Uttar Pradesh, Pin Code: 250103. ----- 6)Mr. Anesh Sagar Address of Applicant :Assistant Professor, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, Pin Code: 244102. ----- 7)Ms. Rinki Sharma Address of Applicant :Lecturer, Shreeji Institute of Pharmaceutical Education and Research, Bilari, Moradabad, Uttar Pradesh, Pin Code: 244411. ----- 8)Mr. Rajesh Saini Address of Applicant :Assistant Professor, Yogendra Nath Saxena College of Pharmacy, Rampur Bhoor Road Hasanpur, Uttar Pradesh, Pin Code: 244241 ----- 9)Mr. Ajay Singh Address of Applicant :Assistant Professor, Prathviraj Chauhan Institute of Medical Sciences, Dhampur, Bijnor, Uttar Pradesh, Pin Code: 246761. ----- 10)Mrs. Ambika Shakya Address of Applicant :Associate Professor, Kalka Institute for Research And Advanced studies Meerut, Uttar Pradesh, Pin Code: 250103 -----</p>
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(57) Abstract :
The present invention relates to a Vitis vinifera leaf extract (ELEVV) with significant neuroprotective and cognitive-enhancing properties. The extract was obtained through ethanol-based extraction and subjected to phytochemical screening, revealing the presence of tannins, flavonoids, phenols, saponins, carbohydrates, and alkaloids. The antioxidant potential of ELEVV was confirmed using the DPPH radical scavenging assay, demonstrating strong free radical neutralization. Acute oral toxicity studies ensured the extract's safety up to 2000 mg/kg. Nootropic activity was evaluated using the Novel Object Recognition Test (NORT) and Y-Maze Test in scopolamine-induced memory-impaired rats, where ELEVV significantly improved memory index in a dose-dependent manner. The findings suggest that ELEVV possesses strong antioxidant and cognitive-enhancing properties, making it a promising natural therapeutic agent for memory-related disorders.

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