

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 1/2025
ISSUE NO. 1/2025

शुक्रवार
FRIDAY

दिनांक: 03/01/2025
DATE: 03/01/2025

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : ANTI-STRESS ACTIVITY OF HYDROALCOHOLIC EXTRACT OF AMARANTHUS TRICOLOR L. LEAVES IN ALBINO RATS

<p>(51) International classification :A61K0009000000, A61K0036210000, A23L0033105000, A61K0036185000, A61P0025000000</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 :</p> <p>1)IFTM University Address of Applicant :IFTM University, Lodhipur Rajput, Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p> <p>2)Mr. Vidhan Chand Bala</p> <p>3)Mr. Amit Kumar</p> <p>4)Mr. Sunil Kumar Tiwari</p> <p>5)Dr. Rishi Kumar</p> <p>6)Dr. Sushil Kumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>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)Mr. Amit Kumar Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p> <p>3)Mr. Sunil Kumar Tiwari Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p> <p>4)Dr. Rishi Kumar Address of Applicant :Associate Professor, School of Pharmacy, Raffles University Neemrana, Alwar, Rajasthan, India, 301705 Alwar -----</p> <p>5)Dr. Sushil Kumar Address of Applicant :Professor & Director, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, India, 244102 Moradabad -----</p>
---	--

(57) Abstract :

The invention relates to a pharmaceutical composition comprising a hydroalcoholic extract of Amaranthus Tricolor leaves as the active ingredient, effective in reducing stress-induced neurological disorders. The extract is prepared using a Soxhlet apparatus with a solvent mixture of ethanol and distilled water in a ratio of 70:30. The process involves washing and drying the leaves, pulverizing them into a fine powder, removing non-polar compounds using petroleum ether, and subsequently extracting the residue with the hydroalcoholic solvent. The obtained semisolid residue contains bioactive compounds, including flavonoids, tannins, alkaloids, saponins, steroids, sterols, amino acids, proteins, and carbohydrates. The composition demonstrates anti-stress activity in animal models through swimming endurance, anoxia stress tolerance, and immobilization stress tests. It also reduces stress-induced biochemical parameters such as glucose, cholesterol, and blood urea nitrogen levels, as well as hematological and organ weight changes. The invention further includes formulations suitable for oral administration, such as tablets, capsules, or syrups, and provides a method for treating stress-induced disorders using an effective dose of 200 to 400 mg/kg body weight.

No. of Pages : 14 No. of Claims : 10