

पेटेंट कार्यालय  
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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : POLYHERBAL FORMULATION FOR NEUROPHARMACOLOGICAL APPLICATIONS USING FOENICULUM VULGARE, EMBLICA OFFICINALIS, AND OCIMUM SANCTUM

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(71)Name of Applicant :

**1)Ms. Tahira Sultan**  
Address of Applicant :Assistant Professor - School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

**2)Mrs. Bhawna Shridhar**

**3)Mrs. Richa Saxena**

**4)Mr. Sushil Kumar**

**5)Mr. Jatin Kishor Sharma**

**6)Mrs. Akhilesh Kumari**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)Ms. Tahira Sultan**  
Address of Applicant :Assistant Professor - School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

**2)Mrs. Bhawna Shridhar**

Address of Applicant :Research scholar- School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

**3)Mrs. Richa Saxena**

Address of Applicant :Assistant professor - School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

**4)Mr. Sushil Kumar**

Address of Applicant :Professor - School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

**5)Mr. Jatin Kishor Sharma**

Address of Applicant :Assistant professor - School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

**6)Mrs. Akhilesh Kumari**

Address of Applicant :Assistant professor – School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Moradabad, Uttar Pradesh, Pin Code: 244102 -----

(57) Abstract :

The present invention relates to a polyherbal formulation comprising hydroalcoholic extracts of Foeniculum vulgare, Emblica officinalis, and Ocimum sanctum in a 3:1:3 ratio, developed for neuropharmacological applications. The plant materials were authenticated and stored under controlled conditions (0–6°C) to retain phytoconstituent stability. Physicochemical parameters were evaluated and found within acceptable limits. Preliminary phytochemical screening and HPTLC confirmed the presence of key bioactives such as ferulic acid and quercetin. The formulation exhibited favorable ADME properties, including high gastrointestinal absorption, compliance with Lipinski’s Rule of Five, and good bioavailability scores. Acute oral toxicity studies conducted in Swiss albino mice confirmed the safety of the formulation. Neuropharmacological evaluation using the Rota rod test demonstrated significant central nervous system depressant activity, comparable to diazepam. This invention provides a safe, plant-based alternative for managing neurobehavioral conditions with potential therapeutic benefits.

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