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<p>(51) International classification :A61P0031040000, A61P0031100000, A61P0017020000, A61P0031000000, A61Q0019000000</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 : <b>1)IFTM University</b> Address of Applicant :Coordinator, IPR, IFTM University, Lodhipur Rajput, Pakbara, NH-24, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102 ----- ----- <b>2)Dr. Divaker Shukla</b> <b>3)Mr. Dhruva Kumar</b> <b>4)Mr. Shiv Kumar Kushawaha</b> <b>5)Dr. Prevesh Kumar</b> <b>6)Dr.Gayyurul Islam</b> <b>7)Dr.Navneet Verma</b> Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : <b>1)Dr. Divaker Shukla</b> Address of Applicant :Associate Professor, Department of Pharmacognosy and Phytochemistry Laboratory, Pharmacy Academy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- <b>2)Mr. Dhruva Kumar</b> Address of Applicant :Associate Professor, Department of Pharmacy, Dr. MKCL BIND College of Pharmacy, Handia, Prayag Raj , Uttar Pradesh, Pin Code: 221503 Prayag Raj ----- <b>3)Mr. Shiv Kumar Kushawaha</b> Address of Applicant :Associate Professor, Department of Pharmacology, Laureate Institute of Pharmacy, Kathog, Jawalaji, Kangra, Himachal Pradesh, Pin Code: 176031 Kangra ----- <b>4)Dr. Prevesh Kumar</b> Address of Applicant :Associate Professor Department of Pharmaceutics, Pharmacy Academy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- ----- <b>5)Dr.Gayyurul Islam</b> Address of Applicant :Professor Department of Pharmaceutical Chemistry, Pharmacy Academy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- ----- <b>6)Dr.Navneet Verma</b> Address of Applicant :Professor, Department of Pharmaceutics, Pharmacy Academy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Uttar Pradesh, Pin Code: 244102 Moradabad -----</p>
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(57) Abstract :

The Present invention relates to a novel antimicrobial formulation derived from the stems of Nyctanthes arbor-tristis, a plant traditionally known for its medicinal properties. This invention includes a method for preparing an ethanolic extract from the plant's stems, aiming to harness its antibacterial and antifungal properties for use in pharmaceutical, agricultural, and cosmetic applications. The stems are carefully dried, powdered, and extracted using a Soxhlet apparatus with 95% ethanol to ensure the retention of bioactive compounds. This concentrated ethanolic extract (EENATS) has demonstrated significant antimicrobial activity, particularly against the bacterial strains *Serratia marcescens* and *Enterococcus faecalis*, and to a lesser extent against the fungal strain *Aspergillus niger*. The effectiveness of the extract was assessed through standardized disc diffusion methods, with results indicating measurable zones of inhibition when compared to standard drugs like Ciprofloxacin and Fluconazole.

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