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(71)Name of Applicant :

1)IFTM University

Address of Applicant :Coordinator, IPR, IFTM University, Lodhipur Rajput, Pakbara, NH-24, Delhi Road, Moradabad, Uttar Pradesh, Pin Code; 244102 -----

2)Mr.Aniket Kakkar

3)Ms. Sakshi Singh

4)Mr. Santosh Kumar

5)Dr.Prashant Kumar

6)Dr. Munesh Mani

7)Dr. Arun Mishra

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr.Aniket Kakkar

Address of Applicant :Assistant Professor, Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code; 244102 -----

2)Ms. Sakshi Singh

Address of Applicant :Assistant Professor, Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code; 244102 -----

3)Mr. Santosh Kumar

Address of Applicant :Associate Professor, GMS College of Pharmacy NH-24 Shakarpur, Rajabpur, Amroha, Uttar Pradesh, Pin Code; 244236 -----

4)Dr.Prashant Kumar

Address of Applicant :Assistant Professor., Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code; 244102 -----

5)Dr. Munesh Mani

Address of Applicant :Professor, Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code; 244102 -----

6)Dr. Arun Mishra

Address of Applicant :Professor, Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Pakbara, Delhi Road, NH-24, Moradabad, Uttar Pradesh, Pin Code; 244102 -----

(57) Abstract :

The present invention relates to an ethanolic extract of Ailanthus excelsa leaves with significant antimicrobial and antifungal properties. The extract is obtained through cold percolation at room temperature, followed by concentration under reduced pressure below 40°C. Antimicrobial efficacy was evaluated using disk diffusion and minimum inhibitory concentration (MIC) assays. The extract exhibited inhibition zones of 19 mm against Bacillus subtilis, 22 mm against Proteus mirabilis, and 17 mm against Saccharomyces cerevisiae, with MIC values as low as 3.125 mg/mL. The formulation offers a natural alternative to synthetic antibiotics, reducing concerns related to antibiotic resistance. It can be incorporated into various pharmaceutical dosage forms such as tablets, capsules, and topical applications for treating microbial infections. Further studies on the isolation of bioactive compounds may enhance its therapeutic potential, making it a promising candidate for antimicrobial drug development.

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