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## Patent Search

Invention Title	ANTI-MICROBIAL ACTIVITY OF CURCUMA LONGA AND MIMOSA PUDICA USING ETHANOL EXTRACTION
Publication Number	32/2024
Publication Date	09/08/2024
Publication Type	INA
Application Number	202441057966
Application Filing Date	31/07/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	A61K36/9066, A61K36/48, A61K35/644, A61K35/06, A61K9/06, A61K31/04

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### Abstract:

This study investigates the antimicrobial activity of Curcuma longa (turmeric) and Mimosa pudica (touch-me-not) using ethanol extraction. Both plants have a rich history in traditional medicine for their antimicrobial properties. The objective is to evaluate and compare their efficacy against a range of microbial strains, including both Gram-positive and Gram-negative bacteria, as well as fungi. Curcuma longa is renowned for its primary bioactive compound, curcumin, which has been extensively studied for its anti-inflammatory, and antioxidant properties. Mimosa pudica, although less studied, contains various bioactive compounds like tannins, flavonoids, and alkaloids, which are believed to contribute to its antimicrobial activity. Ethanol was selected as the solvent for extraction due to its efficiency in dissolving a broad spectrum of bioactive compounds. The extraction process involved maceration of dried plant material in ethanol, followed by filtration and evaporation to obtain the concentrated extracts. The antimicrobial activity of the extracts was assessed using the agar well diffusion method, where zones of inhibition were measured to determine the efficacy against selected microbial strains. Preliminary results indicate that both Curcuma longa and Mimosa pudica exhibit significant antimicrobial activity. Curcuma longa demonstrated a broader spectrum of activity, effectively inhibiting the growth of multiple bacterial and fungal strains. Mimosa pudica showed strong activity particularly against certain Gram-positive bacteria and species. The findings suggest that both plants could be potential sources of natural antimicrobial agents. Further studies, including the isolation and characterization of bioactive compounds, as well as in vivo testing, are recommended to fully understand the mechanisms of action and potential therapeutic applications. In conclusion, the study shows that extracts of Curcuma longa and Mimosa pudica show promising antimicrobial properties, highlighting their potential role in developing alternative antimicrobial therapies, especially in the context of rising antibiotic resistance.

Complete Specification

Description:FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

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THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

1. TITLE OF THE INVENTION:

ANTI-MICROBIAL ACTIVITY OF CURCUMA LONGA AND MIMOSA PUDICA USING ETHANOL EXTRACTION

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Page last updated on: 26/06/2019