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(54) Title of the invention : Natural Antimicrobial Floor Cleaner Comprising Extracts of Cissampelos pareira and Lantana camara

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(57) Abstract :

The present invention relates to a natural antimicrobial floor cleaner formulated using ethanolic extracts of Cissampelos pareira (Patha) and Lantana camara (Phool Lakri), combined with sodium chloride (NaCl), sodium lauryl sulfate (SLS), rock salt, vinegar, distilled water, rose essential oil, and sodium hydroxide (NaOH). The formulation harnesses bioactive compounds such as flavonoids, phenolics, fatty acids, and heterocyclic derivatives that exhibit strong antimicrobial activity. The cleaner was evaluated for pH, stability, foaming ability, odor, and appearance, all within acceptable limits. Antimicrobial testing against multidrug-resistant (*Pseudomonas aeruginosa*, *Bacillus pumilus*, *Cellulosimicrobium cellulans*) and non-resistant (*Escherichia coli*, *Staphylococcus aureus*, *Bacillus subtilis*) strains confirmed broad-spectrum efficacy. The optimized formulation (F5) demonstrated superior foam stability and sustained antimicrobial performance over four months. The product is non-toxic, biodegradable, and eco-friendly, providing dual action of surface cleaning and disinfection while promoting sustainable use of locally available weed species.

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