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Enhancement of anti-microbial activity by natural finishes prepared from herbal spices and wastage peel of fruits applied on textile substrate.

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Fabrics with antibacterial assets have become essential to organize and manage the infestation by microbes, and to reduce the formation of odor. The fabrics with antimicrobial finishes are highly hygienic in all dimensions particular, when consumed by human beings. In order to evaluate antimicrobial activity, we have prepared natural and organic extracts from herbs and wastage of fruits like Pomegranate. The fabric samples were tested for antimicrobial activity against bacterial strains like Staphylococcus, E.coli, under qualitative analysis method AATCC 147.

The results indicated that the cotton fabric show a better microbial resistance against the above mentioned strains by both two natural finishes on untreated and treated substrate. As per qualitative analysis, the fabric treated with extract showed best reduction against Staphylococcus by analyzing antimicrobial activity. The results were improved by binding agent sodium bicarbonate, which helps to improve the antimicrobial finish bind with fabric.

Key words: Textile fabrics, Natural Extract, Fruit peel , antibacterial activity, Staphylococcus Aureus, Escherichia coli,

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