

The effect of treatment of medical purposes nonwoven fabrics with *Costus speciosus* against bacteria and fungi contamination

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Medical fabrics products have recently gained great importance due to their penetration into new and varied fields. With technological and industrial progress, these fabrics have evolved and have multiple areas of use. Non-woven fabrics are considered to be one of the most important and best fabrics used in medical purposes as they are used for one time, which helps to prevent the spread of diseases from bacteria and fungi harmful to humans. Environmentally safe materials, such as the Indian premium, as it works to prevent respiratory diseases and other human diseases.

Hence the research problem lies in the possibility of treating non-woven fabrics with the Indian premium against bacteria and fungi. The research aims to obtain fabrics treated with environmentally safe materials used for medical purposes and to reach the types of bacteria and fungi that the Indian premium works to resist. The research imposes that the Indian premium has an effect on the treatment Non-woven fabrics against bacteria and fungi. The research followed the analytical experimental approach. The most important results of the research were the presence of the Indian premium on bacteria (*Staphylococcus aureus* (G +)) at a concentration of 15% where results with high ratios appeared, which is 15 cm. The different concentrations used for the treatment material being studied worked on different results. One of the most important recommendations is to pay attention to the benefits of the Indian installment and try to employ it in other research and work to use environmentally safe materials in different processing to reduce environmental pollution.

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