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Antibacterial and antifungal activity of toon tree bark's natural dye in aqueous medium

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■ABSTRACT: Objectives: The present investigation was aimed to investigate the antibacterial and antifungal activity of natural dye from toon bark. Methods: Antibacterial and antifungal efficiency of natural dye were evaluated against gram positive bacteria *Staphylococcus aurous*, gram negative bacteria *Escherichia coli* and *Chrysosporium fungus*, *Fusarium oxysporium fungus* using agar well diffusion method. Result: The dye was found to have potent antibacterial activity against all the test bacteria at all the tested concentrations. Highest antibacterial activity against all the test bacteria was recorded with 400 mg/ml treatment. The dye was found to have potent antifungal activity against all the test fungal 400mg/ml treatment. Conclusion: The study concluded that different selected barks can be a potential source of natural dye with remarkable antibacterial and antifungal potency which can applied in fabric for protective clothing.

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