

Dragon Fruit Extract-Based Hand Wash: An Effective Agent Against Bacterial Pathogens

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Abstract: *Our hands are the main entry points for many illnesses into our bodies. Regular hand washing after a predetermined period of time is essential to eradicating such dangerous diseases. The dragon fruit, often called pitaya, is an exotic tropical plant that is gaining popularity all over the world because of its high nutritional content and bioactive components, which include strong natural antioxidants. An organic hand wash containing vital nutrients and bioactive substances is made from dragon peel extract. Dragon peel is a desirable component for hand hygiene products because it contains bioactive compounds like polyphenol and flavonoids that have antioxidant, maybe antibacterial, and moisturizing qualities. Because dragon fruit is high in vitamins, antioxidants, and phenolic compounds, its peel shows promise as a cosmetic ingredient. Because of its high vitamin, mineral, and amino acid content, aloe vera can improve skin hydration while also having a calming effect. A large number of products used as traditional herbs have a long history of usage in herbal therapy. The primary way that infections are spread to patients is through healthcare professionals' hands. As a result, more antiseptics are being used for hand cleaning.*

Keywords: Dragon Fruit, Antibacterial Activity, Hand Hygiene, Hand Wash