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## **CALAMANSI (CITRUS MICROCARPA) CITRUS SHIELD: NATURE'S ANTISEPTIC GEL FOR SOOTHING SKIN IRRITATION**

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### **ABSTRACT**

This study investigates the potential of Citrus microcarpa (Calamansi) peel extract as a natural antiseptic gel for soothing skin irritation. The research aimed to identify the chemical components in calamansi gel that contribute to its antiseptic properties, evaluate the production process, and test its efficacy in relieving skin irritation. A posttest-only control group design was used, involving Albino Mus musculus as test subjects. The study formulated two concentrations of calamansi gel (5% and 10%) and monitored wound healing rates over five days. Results showed that the 10% calamansi gel concentration demonstrated the most significant healing effects, including complete wound closure, reduced redness, and improved skin texture compared to the control and 5% concentration groups. The findings highlight the potential of calamansi peel extract as an effective, accessible, and affordable treatment for skin irritation due to its antibacterial and anti-inflammatory properties. Further research is recommended to explore long-term effects and potential applications in human skincare.

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