

Jatropha Curcus Gel

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Abstract: *Jatropha curcas* is a plant known for its healing properties. In this study, a gel was made using an extract from the leaves of this plant. The goal was to test if the gel could help fight germs and heal wounds. The gel was made using a safe, jelly-like substance called carbopol. Tests showed that the gel had a good texture, proper thickness, and was easy to apply on the skin. When checked in the lab, the gel was able to kill bacteria like *Staphylococcus aureus* and *E. Coli*. It also helped wounds heal faster in animals compared to those not treated with the gel. These results show that *Jatropha curcas* gel could be a natural and useful treatment for skin infections and wounds.

Keywords: Herbal gel, Wound healing, Antibacterial, Antimicrobial activity, Flavonoids, Tannins, Anti-inflammatory, Topical formulation, Medicinal plant, Natural remedy, Skin infection treatment, Phytochemicals, Gel formulation, Traditional medicine

