

# Formulation And Evaluation of Antibacterial Drug Loaded Hydrogel for Wound Healing

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**Abstract:** *Material And Methods:* Hydrogel was prepared from the polymer and various ingredients such as chitosan, polyvinyl pyrrolidone, acetic acid, glycerol, sodium hydroxide, Propyl paraben, Methyl paraben. The prepared hydrogel was evaluated for various Physical parameters such as Organoleptic property, pH, Viscosity, Swelling ratio, In vitro drug release, antimicrobial test and stability study.

*Result:* The formulations were found homogenous, easily spreadable. The formulated hydrogel is compatible with normal physiology.

*Conclusion:* The present investigation was found that the formulated hydrogel was found to be more efficient and suitable for wound healing. This formulated hydrogel contains the chitosan and antibacterial drug and other ingredients they show beneficial action on skin.

**Keywords:** Hydrogel, wound healing, Antibacterial drug loaded

