

# Hydrogel Based Controlled Drug Delivery for Psoriasis

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**Abstract:** *Psoriasis is a chronic inflammatory skin disorder that affect millions of people worldwide . current treatments for psoriasis include topical corticosteroids , immunomodulators and phototherapy but these treatments may have limited efficacy or cause side effect . curcumin a natural compound with anti-inflammatory and antioxidant properties has been shown to have potential as an alternative treatment for psoriasis . however the low solubility and bioavailability of curcumin limit its effectiveness when administered orally or topically . curcumin hydrogel a topical formulation of curcumin has been developed to address these limitation . in this review we summarize the current research on the use of curcumin hydrogel in the treatment of psoriasis . we discuss the pharmacological properties of curcumin the formulation of curcumin hydrogel and the preclinical and clinical studies investigating the efficacy and safety of curcumin hydrogel in psoriasis . overall the available evidence suggests that curcumin hydrogel may be a promising alternative treatment for psoriasis with potential benefits in reducing inflammation , promoting wound healing, and improving overall quality of life for psoriasis patients . further research is needed to fully elucidate the mechanism of action curcumin hydrogel and to optimize its formulation and delivery for maximum efficacy.*

**Keywords:** curcumin, psoriasis, hydrogel, turmeric