

# Study on Formulation and Development Aspects of Celosia Argentea

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**Abstract:** Medicinal plants have long been utilized in all cultures as a source of medicine, they are crucial to public health, particularly in developed and emerging nations. *Celosia argentea* has various pharmacological activities, including immunological activity, cytoprotective, inflammation, and mouth sores. It also causes hyperpyrexia of the liver, hepatic asthenia, and heat in blood. It is used to treat a number of illnesses, including fever, diarrhoea, piles, bleeding nose, mouth sores, itching, wounds, jaundice, and gonorrhoea and wound healing.

Making a medication emulsion and adding it to an emulgel is how the topical system is made. Emulgel, a combination of a co-surfactant and a surfactant, is a low interfacial tension, thermodynamically stable formulation with various advantages, including superior thermodynamic stability and enhanced permeability. Emulgel offers both a prolonged release pattern and dual control. Both bioavailability and patient compliance are enhanced with emulgel. The medication content, stability study, skin irritation test, pH, viscosity, particle size, zeta potential, and other

**Keywords:** Celosia argentea, emulgel, medicinal plants, gelling agent, co-surfactant, surfactant

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