

# Formulation and Evaluation of Polyherbal Pedriatic Edible Jelly for Cough

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**Abstract:** Oral route is the convenient and acceptable route for better patient compliance and easy administration. Oral medicated jellies remain popular among the consumer and children and hence it has continued commercial production. It is an attractive and palatable dosage forms for pediatrics and can be administered without water in the oral cavity meant to be dissolved in mouth or pharynx for its local or systemic effects. These dosage form can be adopted for delivery of drug across buccal route, gingival route, labile route and sublingual route. It has estimated that about 50% of population has problem of swallowing tablets especially pediatrics and geriatrics. Jellies are the most preferred dosage form for even dysphagia patients. Jellies are formulated by Heating and congealing technique. Jellies are semisolid dosage form as they are transparent, non-greasy and can be used internally as well as externally. For any pediatric formulation color, taste, flavor, texture and its acceptance is very important. It serves as a novel dosage form with wide application in pharmaceuticals, nutraceuticals and over the counter medicines. Jellies are evaluated for further evaluations such as weight variation, spreadability, content uniformity, syneresis, palatability, dissolution etc.

**Keywords:** Soft chew, oral medicated jelly, taste masking, gelling agent, dysphagia, pediatric formulation

## OBJECTIVE:

- To Cough Relief Alleviate dry or productive cough by soothing the throat and reducing irritation. Help in expelling mucus in cases of wet cough (expectorant effect).
- To Multi-Herb Synergy Combine several medicinal herbs (e.g., Tulsi, Licorice, Vasaka, Ginger) known for their antitussive, anti-inflammatory, antimicrobial, and mucolytic properties. Utilize synergistic effects for enhanced efficacy over single-herb formulations.
- To Child-Friendly Dosage Form Present the formulation in jelly form, which is: Easier to administer than syrups or tablets. More palatable for children due to sweet taste and smooth texture. Dosing-friendly, minimizing chances of spillage or incorrect measurement.
- To Natural and Safe Provide a natural alternative to synthetic cough syrups that may have side effects. Ensure minimal adverse effects, making it safe for repeated use in pediatric populations.

