

Evaluation of binding property of mucilage from *Litsea glutinosa* wall

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ABSTRACT

Background *litsea glitiosa* is an evergreen tree of medium size which grows to a height of about 20 to 30 feet. It belongs to family Lauraceae. In India it is found mainly in North Eastern region. The leaves and the mucilage from the bark of plant is utilized in the gum for poultices. Methods Mucilage of *Litsea glutinosa* was isolated from powdered bark by continuous hot extraction technique using water and precipitation by absolute alcohol (38% w/w yield). The mucilage was evaluated for binding properties in tablets and granules, using paracetamol as a model drug. the granules were prepared using 4 different concentrations of mucilage (4%, 6%, 8%, and 10%) and evaluated for percentage of fines, average particle size, total porosity, compressibility index, and flow properties. The prepared tablets were evaluated for content uniformity, hardness, friability, disintegration time, and in vitro dissolution profiles. Results the results obtained with the lower concentrations of mucilage, that is, less than 6% were not so encouraging. the tablets prepared by using 10% mucilage of *L. glutinosa* as binder exhibited more hardness as compared with the starch. Conclusion It may be concluded that the concentration ranging from 6% to 8% of *L. glutinosa* mucilage may be considered as better option as a binding agent for the preparation of tablets as compared to the starch (10%).

KEYWORDS

Litsea glutinosa . mucilage . polysaccharide

REFERENCES

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