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Guar gum revisited: Potential carrier for targeted drug delivery systems

Guar also known as cluster bean is the source of a natural hydrocolloid which is cold water soluble and form thick solution at low concentrations. Owing to new technology, research and development being done in this field, the natural gum property has found varied applications from food to pharmaceutical industry. Due to its fascinating properties it is used as a rheological modifier. Guar gum can be modified by derivatization, grafting and network formation to alter its properties and make it suitable for biomedical applications. In order to enhance its applicability in the industries, its derivatization can be carried out to get novel derivatives with desired properties. Therapeutically it is used as hypoglycemic, hypolipidemic, antimicrobial, antiproliferative, appetite suppressant, bulk forming laxative in colitis and crohn's disease. The swelling property of guar gum is of importance in managing the drug release rate in innovative pharmaceuticals. The present talk is a review highlighting the total over-view from the plant to production to the application of this wonderful herb and its potential as a carrier for targeted drug delivery systems.

Biography

Saurabh Dahiya is a Assistant Professor, School of Pharmaceutical Sciences in Apeejay Stya University, Gurgaon, India. He is also Vice President for APP Haryana State Branch of Association of Pharmacy Professionals India.

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