

**Synthesis, Characterization and Applications of carboxy methyl cellulose and guar Gum
composite gel**

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By

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1. Abstract

Carboxy methyl Cellulose and guar gum was synthesized with a simple dry and multi-step method For the first time prepared with water. The product was characterized by variety of material characterization techniques. Such as FTIR. That product was strong strength. Carboxy methyl Cellulose and guar gum is an anionic semi-synthetic guar gum derivative. It is a galactomannan. Prepaed extract The well diffusion method was used in determining the antibacterial efficacy of plant extract against test microorganisms. Here three polar solvents namely, water, methanol, ethyl acetate.

2. Object

Synthesis , characterization and biomedical application of lemon loaded guar Gum/ Carboxyl methyl cellulose Composite gel.