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# Design and Preparation of Guar Gum Nano Particles Based on Emulsification Technique

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**Abstract :** The guar gum Nano particles play vital role in the targeted drug delivery. The guar gum Nano particles are widely used in various industrial applications like food, paper, textile, petroleum, and pharmaceuticals. NPs are low-cost, non-toxic, biodegradable, amenable, biocompatible, and to chemical modifications. The properties of NPsthat make a perfect solid for mounting drug delivery interpretations. This paper describes the design and preparation of guar gum Nano particles based on emulsification cross linked technique. This technique contains three steps. First is to find whether given liquid contains nanoparticles or not. Second is to measure the size of the different nanoparticles. Third is to design the guar gum Nano particles. This technique produces the better results in the case of overlapping and noisy Nano particles. The experimental results have been presented in the form of tables and graphs.

**Keywords :** guargum, span80, glutaraldehyde, HPLC water and glycerol.

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