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(57) Abstract :

The present invention relates to develop an oral sustained release metformin hydrochloride tablet by using bi gels of natural gum Chitosan in combination with various gums. All the formulations were evaluated for thickness, weight variation, hardness and drug content uniformity and in vitro drug release. The in-vitro drug released at an indicated that the release of drug from the system was sustained up-to 6 h and hence confirms the drug release-retarding efficiency of the polymer. It was observed from the results that all three gums employed in our study were proved as suitable candidate for controlling drug release of highly water-soluble drug by this mechanism. Drug release from CH- Karaya gum complex was found to be more in comparison to Locust bean gum and Guar gum. The preparation of bi-gels by emulsification method has been an overlap proachin retarding drug release.

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