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(57) Abstract :

The present invention relates to the development of glimepiride microspheres by complex coacervation method. spherical shape with smooth surface and very high percent drug entrapment efficiency coupled with high production yield. It was also found that polyelectrolyte complex formation between the positively charged Chitosan and negatively charged Gelatin B can control the release of model drug i.e., Glimepiride for about 12 hours in almost all the formulations, as this system can be useful in designing control release formulation through simple modifications in formulation parameters. The most important parameter that were found to affect were polyelectrolyte concentration, pH of the formulation medium, stirring rate, crystallinity of the drug.

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