



DEVELOPMENT AND EVALUATION OF FLOATING MICROSPHERES OF GLIPIZIDE

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ABSTRACT

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Glipizide is an effective anti-diabetic drug particularly in non- insulin dependent diabetes mellitus. It is a second generation sulfonyl urea that actually lowers the blood glucose level in humans by stimulating the pancreatic cells and thereby releasing insulin. Low molecular weight of glipizide and its short biological half-life (2-5h) made it suitable candidate for the gastro-retentive drug delivery. The main objective of formulating the mucoadhesive delivery system of glipizide was to prolong the drug release time, to reduce the frequency of administration and to improve patient compliance.