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(57) Abstract :
The present invention belongs to the field of pharmaceutical science and specifically a formulation, optimization and evaluation of controlled released beads. The present invention relates to a method of synthesis of Levofloxacin Hydrochloride loaded chitosan sodium alginate beads comprising the steps of: Sodium alginate solution (2%,4% & 6% w/v) are prepared by dissolving 2, 4 & 6g of Sodium alginate in a small amount of distilled water to get clear solution, Maintaining the volume made up to 100 mL, Levofloxacin Hydrochloride is added to each Sodium alginate solution with continuous stirring using magnetic stirrer, Chitosan (0.25, 0.50 & 0.75%) and calcium chloride (3%) are dissolved in 5% acetic acid solution, Levofloxacin HCl containing Sodium alginate solution is added drop wise through 21 gauge needle into chitosan containing calcium chloride solution (100 ml) to formulte beads, the formulated beads are kept for 30 m for curing reaction, then microbeads are collected by filtration using wattman filter paper and washed with water. the drying of beads are done till constant weight achieved.

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