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Patent Search

Invention Title	FORMULATION, OPTIMIZATION AND CHARACTERIZATION OF GASTRORETENTIVE OLANZEPINE MICROSPHERE USING FACTORIAL DESIGN
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Abstract:

The present invention relates to Olanzapine microsphere prepared by external Inotropic gelation technique using sodium alginate and carbopol 974 P as a polymer and calcium chloride as a cross linking agent. In this formulation combination of sodium alginate and carbopol 974 P is used as a polymer that helps to retard the release of drug and increases the bioavailability of drug. The Olanzapine microsphere has other characterization is in the term of drug content, drug entrapment efficiency, PXRD, Differential Scanning Colorimetry, FT-IR, S.E.M., In-vitro drug release and In-vivo drug release. The optimized formulation shows greater than 80 % of drug release. Optimized formulation demonstrates better antidepressant action as compared to pure Olanzapine drug.

Complete Specification

Claims:We Claim,

1. A mucoadhesive microsphere composition containing olanzapine, characterized in that it comprises the following components by weight:
 - a. Olanzapine or its salt 200 mg;
 - b. Polymer 4 to 6 gram; and
 - c. Cross-linker 1 to 2grams.
2. The composition as claimed in claim 1, where in the polymer is carbomer and sodium alginate.
3. The composition as claimed in claim 1, where in the cross-linker is calcium chloride.
4. The mucoadhesive microsphere composition containing olanzapine as claimed in claim 1, wherein the particles are spherical.
5. The mucoadhesive microsphere composition containing olanzapine as claimed in claim 1, wherein the drug release is 80%.

Description:FIELD OF INVENTION

The present invention relates to a composition of formulation of microspheres of olanzapine.

BACKGROUND OF THE INVENTION

Microsphere are multiarticulate drug delivery system which are prepared to obtain prolonged or controlled drug delivery to improve bioavailability, stability and to target

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The present invention relates to Olanzapine microsphere prepared by external Inotropic gelation technique using sodium alginate and carbopol 974 P as a polymer and calcium chloride as a cross linking agent. In this formulation combination of sodium alginate and carbopol 974 P is used as a polymer that helps to retard the release of drug and increases the bioavailability of drug. The Olanzapine microsphere has other characterization is in the term of drug content, drug entrapment efficiency, PXRD, Differential Scanning Colorimetry, FT-IR, S.E.M., In-vitro drug release and In-vivo drug release. The optimized formulation shows greater than 80 % of drug release. Optimized formulation demonstrates better antidepressant action as compared to pure Olanzapine drug.

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