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(57) Abstract:

The present invention relates to development of Mouth dissolve tablets(MDT) which mask the bitter taste of Levocetirizine HCl using cation-exchange resins. Tulsion 335 was selected as weak acid-cationic resin because of exchangeable cationic moiety of the drug. The drug resin complexes were prepared by batch process. The swelling time, stirring time and ratio drug; resin was found to affect the masking of taste and drug loading of the complex. A 2 3 full factorial design was employed to study the effect of independent variables; swelling time (X1), stirring time (X2) and drug; resin ratio (X3) on the dependent variables; i.e., % drug loading and taste masking. The mouth dissolve tablets of Levocetirizine HCl had sufficient crushing strength (2.5 to 3.5 kg/cm²), friability (< 0.5%), wetting time (26 sec) and disintegration time (28 sec). It concludes wet granulation technique would be an effective alternative approach in the formulation of MDT.

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