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Der Pharmacia Lettre

Abstract

[Formulation and in vitro evaluation of sustained release matrix](#)

[tablets of roxatidine acetate HCl by using natural and synthetic polymers](#)

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The work focuses mainly on sustaining the release of Roxatidine acetate Hcl, formulating them in to matrix tablets by using various matrix materials like Aloe barbadensis miller mucilage, HPMC K100 and Eudragit RSPO. Plasma half-life of Roxatidine acetate Hcl after oral administration, about 5 to 6 hrs and its bioavailability is 80%, So Roxatidine acetate Hcl is suitable for sustained drug delivery system, which may improve bioavailability. The granules were evaluated for angle of repose, loose bulk density, tapped bulk density and compressibility index. The tablets were subjected to various tests for physical parameters such as thickness, hardness, friability, drug content, and in vitro release studies. The prepared tablets were found to have better pharmacopoeial standard values. The drug release data fit well to the zero order. Korsmeyer's plot indicated that the drug release mechanism from the matrix tablet followed was Anomalous (non-Fickian) diffusion.

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