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The Preparation and Evaluation of Mucoadhesive Buccal Tablets of Losartan Potassium by using Okra Polymer

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ABSTRACT

Buccal route is one of the most preferable routes for drug delivery. The objective of present research work is to design and evaluate the sustained release mucoadhesive buccal tablets of Losartan potassium in order to achieve the release of drug at specific site and avoid first pass metabolism. Okra gum obtained from the plant *Abelmoschus esculents* had been used as mucoadhesive polymer for the preparation of sustained release mucoadhesive buccal tablets. Formulation was prepared by direct compression method. Prepared buccal tablets were evaluated for weight variation test, hardness, friability, drug content, ATR, XRD, DSC, SEM, *in vitro* drug release and for *ex - vivo* mucoadhesion time. The mucoadhesive buccal tablets thus develop give better alternative for the buccal drug delivery at the specific site, give sustained release effect and avoid the first pass metabolism of the drug.

Keywords: Okra polymer, Losartan potassium, Mucoadhesion time, Sustained release.

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