



- Current Issue
- Browse Issues
- Search
- About this Journal
- Instruction to Authors
- Online Submission
- Subscription
- Contact Us
- RSS Feed

Acta Medica Iranica

2009;47(4) : 17-22

The effect of loading solution and dissolution media on release of Diclofenac from ion exchange resins

"Atyabi F, Koochak M, Dinarvand R "

Abstract:

Drugs can be loaded on ion exchange resins in order to control their release. Loading of diclofenac sodium on the resin beads not only sustain its release but also reduce its gastrointestinal mucosal injury. In this study the effect of loading solution and concentration of diclofenac in loading solution on total amount of drug loaded on the resin beads (Amberlite IRA-900) and the release characteristic of drug in different media were examined. Results showed that diclofenac resin complex did not release their drug content in simulated gastric fluid but released it in simulated intestinal fluid independent of exposure time in acidic conditions. The effect of a number of parameters such as ionic strength and pH on the release characteristic of drug - resin complexes were also examined. Results showed that although ionic strength is an important factor, drug release is more affected by the pH of the media. NO ABSTRACT

Keywords:

[Ion exchange resins](#) . [Diclofenac sodium](#)

TUMS ID: 1183

Full Text HTML Full Text PDF 1508 kB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009
[Central Library & Documents Center](#)
[Tehran University of Medical Sciences](#)

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions