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interactions with the  
mucosal tissues of the  
eye and mouth, and  
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bioadhesion, polymer  
hydration, and mucus  
rheology

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This invaluable reference presents a comprehensive review of the basic methods for characterizing bioadhesive materials and improving vehicle targeting and uptake-offering possibilities for reformulating existing compounds to create new pharmaceuticals at lower development costs. Evaluates the...

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Mathiowitz, Edith.  
Informa Healthcare.  
Hardcover.

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Written by over 50 international experts and reflecting broad knowledge of both traditional bioadhesive strategies and novel clinical applications, Bioadhesive Drug Delivery Systems discusses...

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The term bioadhesion commonly defined as adhesion between two materials where at least one of the materials is of biological origin. In the case of bioadhesive drug delivery system, bioadhesion often refers to the adhesion between the excipients and biological tissue.

## **BIOADHESIVE DRUG DELIVERY SYSTEMS**

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## Bioadhesive Drug Delivery Systems

The bioadhesive coated system when comes in contact with the mucus layer, various non-specific or specific interactions occurs between the complimentary structures and these interactions last only until the turnover process of mucin the drug delivery system should release its drug contents during this limited adhesion time, in order for a

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bioadhesive system to be successful.

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Abstract Bio adhesive systems have gained growing interest due to its ability to localize the drug delivery along with sustained release. This leads to reduction of side-effects due to non-specific...

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strategies for  
bioadhesive drug  
delivery systems

- Multifunctional  
polymers for the  
peroral delivery of  
peptide drugs
- Chitosan and chitosan  
derivatives as  
absorption enhancers  
for peptide drugs  
across mucosal



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epithelia --Plant lectins  
for oral drug delivery to  
different parts of the  
gastrointestinal tract  
--Bacterial invasion  
factors and lectins as  
second-generation  
bioadhesives --Novel  
PEG-containing  
acrylate copolymers  
with improved  
mucoadhesive  
properties ...

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Consequently, bioadhesive polymers have extensively been employed in transmucosal drug delivery systems. If these materials are then incorporated into pharmaceutical formulations, drug absorption...

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delivery systems  
prolong the residence

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## Bioadhesive Drug Delivery Systems

time of the dosage form at the site of application or absorption. They facilitate an intimate contact of the dosage form with the underlying absorption surface and thus improve the therapeutic performance of the drug.

**Mucoadhesive drug delivery system: An overview Boddupalli**

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## Bioadhesive Drug Delivery Systems

CONCLUSION Improvements in bioadhesive-based drug delivery and, in particular, the delivery of novel, highly-effective and mucosa-compatible polymer, are creating new commercial and clinical opportunities for delivering narrow absorption window drugs at the target sites to maximise their usefulness. Mucoadhesive drug delivery systems

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are being studied  
from different angles,  
including development  
of novel  
mucoadhesives, design  
of the device,  
mechanisms of  
mucoadhesion  
and permeation  
enhancement.

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For topical drug  
delivery, bioadhesive  
hydrogels are ideal as

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they can provide  
extended release of  
therapeutic agents  
such as antimicrobials  
to the oral mucosa.

Drugs And The  
**Development and In  
Vivo Evaluation of a  
Novel Histatin-5 ...**

Bioadhesion may be  
defined as the state in  
which two materials, at  
least one of which is  
biological in nature, are  
held together for  
extended periods of  
time by interfacial

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## Bioadhesive Drug Delivery Systems

forces. The rationale being that the formulation will be 'held' on a biological surface for localized drug delivery. The API will be released close to the site of action with a consequent enhancement of bioavailability. It is a phenomenon of interfacial molecular attractive forces amongst the surfaces of the ...



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Belgamwar and Surana  
formulated and

optimized floating  
bioadhesive drug  
delivery systems using  
psyllium husk and hydr  
oxypropylmethylcellulo  
se (HPMC) K15M for  
retarding the release  
and crossprovidone as  
a swelling agent. In  
vitro drug release was  
found to have followed  
the Higuchi kinetics

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mechanism to be non-  
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Published on Mar 9,  
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delivery systems  
interact with the  
mucus layer covering  
the mucosal epithelial  
surface, and mucin

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molecules and...

**Mucoadhesive Drug  
Delivery System**

The study aim was concerned with formulation and evaluation of bioadhesive buccal drug delivery of tizanidine hydrochloride tablets, which is extensively metabolized by liver. The tablets were prepared by direct compression using

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