ROEHM PHARMA POLYMERS -
Your Partner for Development of Solid Pharmaceutical Dosage Forms

With EUDRAGIT®, Rohm Pharma Polymers offers not only a broad product spectrum of acrylate-based pharmaceutical polymers but also 50 years of experience in the development of oral dosage forms. Ever since, customers worldwide have benefited from this developmental partnership. This know-how and the wide assortment of EUDRAGIT® polymers permit customized formulations for controlled release dosage forms.

Rapidly Disintegrating, Protective and Insulating Coatings with EUDRAGIT®

A fast disintegrating or rapidly dissolving coating releases the active in the stomach.
It functions as an insulating and protective coating. Sensitive drugs can be protected with such coatings. At the same time, fast disintegrating coatings can enhance patient compliance by masking an unpleasant taste or odor and easy swallowing of the dosage form. Special properties and characteristics of this application are:

- improved storage stability
- taste and odor masking
- smooth, glossy surfaces
- colored coatings with thin layer
- economical processing due to short spraying processes
Enteric Coatings

Coatings of anionic poly(meth)acrylates also permit GI targeting. For this purpose Rohm offers EUDRAGIT® grades with different carboxyl group contents, which are also miscible with each other. In this way, the pH at which the coating goes into solution can be adjusted precisely. Because the pH increases along the intestine, the site of drug release can be controlled with such an EUDRAGIT® coating.

Further, a gastroresistant (enteric) coating due to the insulating effect provides high storage stability and increases patient compliance. Drug release depends not only on the polymer used but also on the thickness of the film coating and on the dissolution properties of the active under physiological conditions. Special characteristics of gastroresistant EUDRAGIT- coatings are:

- protection of actives sensitive to gastric fluid
- protection of the gastric mucosa from aggressive drugs
- pH-dependent drug release
- GI targeting (e.g. in the colon)
- good storage stability

EUDRAGIT® for Controlled Drug Release

For many oral dosage forms, time controlled drug release—independently of the pH of gastric fluids—is desirable. Oral preparations with controlled time release of active can be formulated using swellable permeable EUDRAGIT® polymers. There are two approaches:

*EUDRAGIT® is used as a coating material.* Typically, pellets or microparticles are coated with a polymer film and filled into capsules or compressed to tablets. In the digestive tract, the coated pellets or microparticles act as diffusion cells and release a constant drug quantity per unit of time (multi-unit dosage forms).
EUDRAG/T® serves as the matrix in which the drug is embedded. The matrix structure can be produced by direct compression or wet granulation.

The characteristics of sustained-release formulations with EUDRAGIT® are:

- sustained zero order release; high reliability and reproducibility
- generation of therapeutically optimized drug release profiles
- enhanced compliance with a single daily dose
- economical processing

Technical Service and Global Presence

EUDRAGIT® Polymers are manufactured under the most stringent GMP Guidelines and offer a series of customer benefits:

- versatile in use and always permit an effective customized formulation,
- delivers products of consistently high quality worldwide
- well-equipped laboratories for development and application technology,
- comprehensive know-how in the development of controlled release dosage forms
- provides scale-up and regulatory support
Further information is available from the following address:

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