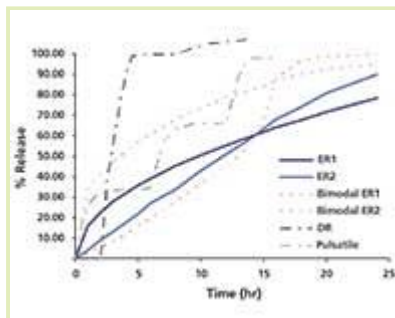


Understanding Design and Development of Modified Release Solid Oral Dosage Forms

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Oral modified release (MR) dosage forms are developed by altering the drug release to achieve predetermined clinical objectives. MR solid oral dosage forms include extended release (ER) and delayed release (DR). Matrix, reservoir, and osmotic pumps are the most common ER delivery systems. Other MR systems include enteric, colonic, pulsatile, and bimodal release systems. Rational design of oral MR systems starts with identifying clinical need, defining the target product profile, performing the feasibility studies, selecting, formulating, and testing the appropriate MR system. Integrated understanding...

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