

Understanding Biopharmaceutics Properties for Pharmaceutical Product Development and Manufacturing I— Oral Absorption and the Biopharmaceutics Classification System

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Bioavailability refers to the rate and extent of a therapeutically active drug that reaches the systemic circulation, thereby accessing the site of action. Bioavailability of an oral dosage form may be understood from three perspectives: Anatomical and physiological features of the gastrointestinal tract, physicochemical properties of the drug molecule, and physicochemical properties of the dosage form. In vivo dissolution and gut wall permeation are two critical sequential steps before a drug enters the general systemic circulation. The epithelium in the gastrointestinal tract presents the...

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