



# Drug Bioavailability: Estimation of Solubility, Permeability, Absorption and Bioavailability, Volume 18 (Methods and Principles in Medicinal Chemistry)

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The peroral application (swallowing) of a medicine means that the body must first resorb the active substance before it can begin to take effect. The efficacy of drug uptake depends on the one hand on the chemical characteristics of the active substance, above all on its solubility and membrane permeability. On the other hand, it is determined by the organism's ability to absorb pharmaceuticals by way of specific transport proteins or to excrete them. Since many pharmacologically active substances are poorly suited for oral intake, a decisive criterion for the efficacy of a medicine is its so-called bioavailability.

Written by an international team from academia and the pharmaceutical industry, this book covers all aspects of the oral bioavailability of medicines. The focus is placed on methods for determining the parameters relevant to bioavailability. These range from modern physicochemical techniques via biological studies in vitro and in vivo right up to computer-aided predictions. The authors specifically address possibilities for optimizing bioavailability during the early screening stage for the active substance. Its clear structure and comprehensive coverage make this book equally suitable for researchers and lecturers in industry and teaching.

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## **Editorial Review**

### **Review**

"...this book would make a valuable resource for scientists working in drug discovery and early drug development..." (*Pharmaceutical Research*, June 2004)

"This monograph is without a doubt the most comprehensive and up to date publication on drug bioavailability available today...very highly recommended..." (*Journal of Medicinal Chemistry*, Vol. 47, No. 7)

"This is an excellent book, which is very well suited for both teachers and newcomers to the field, who can use it as a starting point for further in-depth studies of the relevant literature. Experienced researchers from different disciplines will get the rapid introduction they desire and learn about the various aspects connected to drug bioavailability."

—Sven Grüneberg, Stefan Güssregen, Chemistry, Computational Chemistry, Aventis Pharma Deutschland GmbH, Frankfurt a.M., (*Angewandte Chemie* and *Angewandte Chemie International Edition*, 2/04)

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