

The *Medicinal Chemistry Practical Manual* is a student-friendly laboratory guide that covers fundamental experiments in the synthesis, assay, and physicochemical evaluation of medicinal compounds. It is tailored to meet the academic requirements of pharmacy curricula and to develop practical competencies in medicinal chemistry.

The book is divided into three major sections:

1. **Synthetic Experiments** - Including the preparation of important drug molecules such as Hydroxy-4-methyl coumarin, benzimidazole, benzotriazole, sulfacetamide, chlorbutol phenothiazine, and phenyton.
2. **Assay Procedures** - Encompassing the quantitative estimation of drugs like isoniazid, chloroquine phosphate, ibuprofen, aspirin, and frusemide using official methods.
3. **Physicochemical Experiments** - Covering partition coefficient studies of compounds like benzoic acid, salicylic acid, and aspirin to provide insights into drug absorption and distribution.

Each experiment is presented with a clear aim, principle, list of requirements, detailed procedure, chemical reaction scheme, calculations, and reporting format. This systematic approach makes the manual not only useful for practical classes but also a reliable reference for examinations and research activities. The book is an indispensable resource for pharmacy students, academicians, and laboratory instructors who wish to gain hands-on experience in medicinal chemistry and drug analysis.



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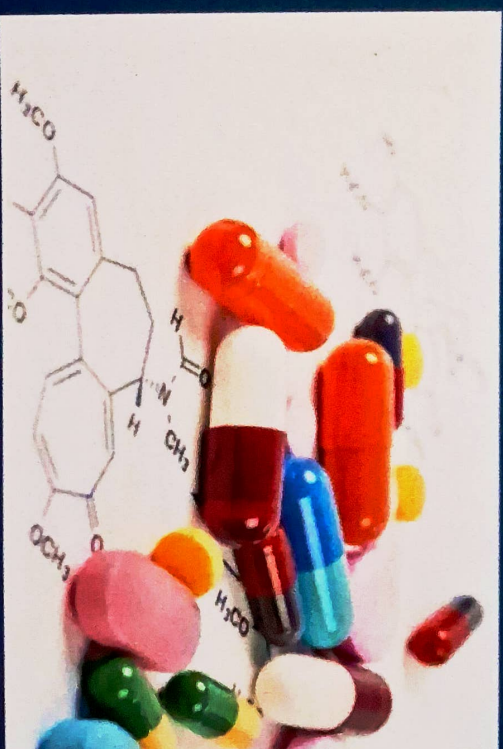
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