



# Introduction to Pharmaceutical Chemical Analysis

By Steen Honoré Hansen, Stig Pedersen-Bjergaard, Knut Rasmussen

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**Introduction to Pharmaceutical Chemical Analysis** By Steen Honoré Hansen, Stig Pedersen-Bjergaard, Knut Rasmussen

This textbook is the first to present a systematic introduction to chemical analysis of pharmaceutical raw materials, finished pharmaceutical products, and of drugs in biological fluids, which are carried out in pharmaceutical laboratories worldwide.

In addition, this textbook teaches the fundamentals of all the major analytical techniques used in the pharmaceutical laboratory, and teaches the international pharmacopoeias and guidelines of importance for the field. It is primarily intended for the pharmacy student, to teach the requirements in “analytical chemistry” for the 5 years pharmacy curriculum, but the textbook is also intended for analytical chemists moving into the field of pharmaceutical analysis.

- Addresses the basic concepts, then establishes the foundations for the common analytical methods that are currently used in the quantitative and qualitative chemical analysis of pharmaceutical drugs
- Provides an understanding of common analytical techniques used in all areas of pharmaceutical development
- Suitable for a foundation course in chemical and pharmaceutical sciences
- Aimed at undergraduate students of degrees in Pharmaceutical Science/Chemistry Analytical Science/Chemistry, Forensic analysis
- Includes many illustrative examples

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### Editorial Review

Review

"It teaches the fundamentals of all the major analytical techniques and their application in pharmaceutical laboratories, and it is a valuable resource for pharmacy students and analytical chemists working in pharmaceutical analysis." (*Analytical and Bioanalytical Chemistry*, 1 August 2012)

From the Back Cover

**Steen Honoré Hansen**

*Pharmaceutics & Analytical Chemistry, University of Copenhagen, Denmark*

**Stig Pedersen-Bjergaard**

*School of Pharmacy, University of Oslo, Norway and Pharmaceutics & Analytical Chemistry, University of Copenhagen, Denmark*

**Knut Einar Rasmussen**

*School of Pharmacy, University of Oslo, Norway*

This textbook places a unique focus on pharmaceuticals and pharmaceutical laboratory practices, providing a systematic introduction to the different applications of chemical analysis commonly used in the pharmaceutical industry. It comprehensively covers chemical analysis of drug substances, final pharmaceutical products, and biological fluids like blood and plasma, with a special emphasis on sample preparation and separation techniques.

The text is arranged in three parts;

- The first presents an introduction to the chemical analysis of pharmaceuticals and teaches the basics of analytical chemistry and statistics;
- The second provides descriptions of a variety of analytical techniques widely-used in the pharmaceutical laboratory.
- The third instructs the reader how to use analytical techniques to analyze raw materials for pharmaceutical production, how to analyze finished pharmaceutical products, and how to analyze drug substances in biological fluids like urine and blood.

*Chemical Analysis in Pharmaceutical Sciences* will be a valuable resource for undergraduates studying pharmaceutical sciences, analytical sciences, chemistry and forensic analysis. It is written by three established authors, all of whom have extensive experience researching and teaching pharmaceutical analysis. The content is presented from a fundamental point of view and includes solvable problems and illustrative examples with up-to-date information that transcends existing textbooks in this field.

About the Author

**Steen Hansen** is professor in analytical chemistry at the Faculty of Pharmaceutical Sciences at Copenhagen University (Denmark), and has extensive experience in the teaching of analytical chemistry for pharmacy students. His main research interests are in basic separation sciences (primarily HPLC and CE), in particular

on separation mechanisms, but also extend into hyphenated techniques using NMR and ICP-MS besides conventional detection techniques. He has authored and/or coauthored more than 240 papers in international peer-review journals. For 20 years, he was the President of the Scandinavian Section of The Chromatographic Discussion Group until this was renamed the Separation Sciences Foundation of which he is President.

**Knut Einar Rasmussen** is professor in pharmacy at the School of Pharmacy at University of Oslo (Norway) and has similarly long experience in teaching of drug analysis for Pharmacy students. He has published extensively and his main research areas are focused on the development of innovative state-of-the-art miniaturized methods in separation science combined with detection and structure determination of drugs, naturally occurring biomolecules/biomarkers and environmental biomarkers.

**Stig Pedersen-Bjergaard** is professor at at the School of Pharmacy, University of Oslo (Oslo, Norway) as well as in 2008, being appointed as full Professor (part time) at Department of Pharmaceutics and Analytical Chemistry, Faculty of Pharmaceutical Sciences, University of Copenhagen (Copenhagen, Denmark). SPB has specialized in analytical micro extraction technologies, on development and applications of artificial liquid membranes, and on electrokinetic separation methods. SPB has published more than 90 papers in international journals, given more than 65 presentations at international symposia, authored 6 patent applications, and is a member of the Editorial board for *Analytica Chimica Acta* and *International Journal of Analytical Chemistry*.

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