



An Introduction to HPLC for Pharmaceutical Analysis

By Oona McPolin

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If you are new to HPLC, this book provides an invaluable guide to how HPLC is actually used when analysing pharmaceuticals. It is full of practical advice on the operation of HPLC systems combined with the necessary theoretical knowledge to ensure understanding of the technique. Key features include: A thorough discussion of the stationary phase enabling the reader to make sense of the many parameters used to describe a HPLC column; Practical advice and helpful hints for the preparation and use of mobile phase; A complete overview of each of the different components which together make up a HPLC system; A description of the contents of a typical HPLC analytical method and how to interpret these; A step-by-step guide on how to follow a method and set up a HPLC analysis; A discussion of system suitability criteria and how to interpret the values obtained during an analysis; Explanation of the common methods of calibration and quantification used for pharmaceutical analysis.

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Editorial Review

From the Author

I hope that this book provides the reader with the information they need to get started in HPLC. When writing the text and deciding what to include, my approach was to include the information that I wished someone had told me at the beginning of my career in HPLC. I have also included recent developments in HPLC technology to ensure that the content is fully up to date. There is a lot of information to take in at a first reading in these eight chapters, my wish is that this book will be a useful reference for the reader as they gain experience in HPLC analysis.

(added by author)

From the Inside Flap

This book is aimed at the analyst who is new to HPLC. The content is written specifically for HPLC applied to pharmaceutical analysis. The purpose of the book is to provide the necessary information which will enable the reader to confidently follow a HPLC analytical method. Therefore, the content is based around the information that an analyst needs to be able to use HPLC in a pharmaceutical analysis environment. The concepts of how the technique works and how it is applied in practice are introduced in a logical order, the intention being to build up an understanding of the whole technique gradually. After an introduction to the topics of both HPLC and pharmaceuticals in chapter 1, the next three chapters deal with the equipment and instrumentation required for the technique. Chapter 2 describes the stationary phase and enables the reader to make sense of the many parameters used to describe a HPLC column. Chapter 3 provides all the necessary information to enable correct preparation and use of HPLC mobile phase. Chapter 4 introduces the equipment which is used to implement the technique of HPLC. The key features of each of the separate parts of the system are described to provide an understanding of how they combine to perform analysis. The second half of the book, chapters 5 to 8, concentrates on the application of HPLC for pharmaceutical analysis. Chapter 5 describes the analytical method and how to interpret its contents. Chapter 6 is a step-by-step guide on how to follow a method and set up a HPLC analysis. Chapter 7 explains the meaning of system suitability criteria and how to interpret the values obtained during an analysis. The final chapter explains the common methods of calibration and quantification used for pharmaceutical analysis, this will enable the reader to calculate the results from a HPLC analysis correctly.

In addition to providing an introduction to HPLC for pharmaceutical analysis it is intended that this book will be a useful resource. At the end of each chapter there is a list of references and/or further reading which will help the reader to develop their expertise in the technique. Useful data is provided throughout the book, such as: buffers and their pK_as; conversion tables for units of pressure; and lists of the UV cutoffs for common solvents and buffers. There is a glossary and a list of abbreviations at the back of the book to help the reader become familiar with the terminology used in HPLC and pharmaceutical analysis. When a new term is introduced it is shown in bold to indicate to the reader that a definition is available in the glossary.

(added by author)

About the Author

Oona McPolin (BSc MSc CSci CChem MRSC) is the training services manager of Mourne Training Services, a training consultancy which provides training solutions for pharmaceutical analysis. She is also a

part-time college lecturer. This book is based on experience gained both from working as an analytical chemist in the pharmaceutical industry for over 10 years and from the design and delivery of effective training courses on various topics relating to HPLC. *(added by author)*

Users Review

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