

Handbook of HPLC–HPTLC

aims to serve as a text for pharmacy students and a comprehensive guide for the analysts working in institutions, universities, QC laboratories and industry. It is a ready reckoner and handbook for the academic/industrial research-oriented readership. It focuses on basic ideas, method development, analytical methods validation and trouble shooting in HPLC and HPTLC which explore their applications in analytical laboratory. It strongly emphasises simple graphical methods of data analysis such as control charts which are key-tools in laboratory accreditation. A large part of the book is concerned with instrumentation, design and analysis of laboratory basic experiments. Practical case studies are used throughout to illustrate the ideas in action.

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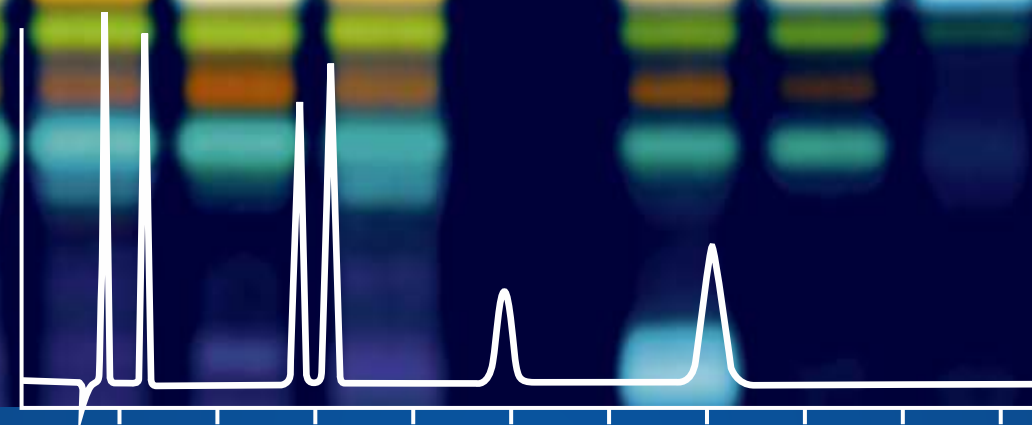
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As per the latest PCI syllabus prescribed for BPharm Semester VII



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Preface

This book is intended to be a simple, introduction to the basic HPLC methods that are routinely applied in analytical chemistry/quality control laboratories and R&D. While it is strongly influenced by our experiences of industries, short courses to academic research scholar in universities, the ideas are quite general and would find application in virtually every type of analytical chemistry laboratory. We have included information from different application areas, based on a wide range of HPLC techniques. We hope, therefore, that the book will have a broad appeal and serve the needs of an easiest audience.

The book is oriented towards the needs of analysts working in colleges, universities, and QC laboratories rather than towards a wider academic/industrial research-oriented readership. Accordingly, it focuses on a basic HPLC ideas and methods and explores their uses in the applications of analytical laboratory. The selected methods are important aids in method development, method validation and troubleshooting. The book strongly emphasizes simple graphical methods of data analysis, such as control charts, which are a key-tool in internal laboratory quality control and which are a fundamental requirement in laboratory accreditation. A large part of the book is concerned with the design and analysis of laboratory basics experiments. The coverage ranges from the simplest studies, involving simultaneous changes to many system parameters as an integral part of the method validation process. The approach taken focuses on the statistical ideas rather than on the underlying mathematics. Practical case studies are used throughout to illustrate the ideas in action.

Rajesh Kumar Nema
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Contents

Preface

v

1. High Performance Liquid Chromatography (HPLC) 1

- 1.1 Introduction to chromatography 1
- 1.2 Classification of chromatographic methods 2
- 1.3 Separation techniques in chromatography 2
- 1.4 High performance liquid chromatography (HPLC) 4
- 1.5 Principle of HPLC 5
- 1.6 Theory of HPLC 8
- 1.7 Instrumentation of HPLC 24
 - i. Mobile phase reservoirs 26
 - ii. Pumps 30
 - iii. Mixing unit, gradient controller and solvent degassing 35
 - iv. Injector (manual or auto-injectors) 37
 - v. Columns (guard-columns, pre-columns, analytical columns, etc.) 40
 - vi. Detectors 48
 - vii. Recorder or data system 68
- 1.8 Applications of HPLC 70

2. Method Developments in HPLC 80

- 2.1 Introduction 80
- 2.2 Column selection 81
- 2.3 Detector selection 85
- 2.4 Sample preparation 86
- 2.5 Eluent survey 87
- 2.6 Survey evaluation 88
- 2.7 Optimizing the separation 92
- 2.8 Qualitative analysis 99
- 2.9 Quantitative analysis 101
- 2.10 Preparative separations 106
- 2.11 Summary 113

3. Analytical Methods Validation and their Importance 114

- 3.1 Accuracy 115
- 3.2 Precision 116
- 3.3 Specificity 118
- 3.4 Detection limit 119
- 3.5 Quantitation limit 121
- 3.6 Linearity and range 123
- 3.7 Ruggedness 124
- 3.8 Robustness 125

- 3.9 System suitability 126
- 3.10 Glossary 127

4. Troubleshooting in HPLC **129**

- 4.1 Introduction 129
- 4.2 Abnormal pressure 132
- 4.3 Leaks 133
- 4.4 Problems with the chromatogram 135
- 4.5 Problems with the injector 139
- 4.6 Problems detected by smell, sight or sound 140
- 4.7 Key problem areas and preventive maintenance 140
- 4.8 Vacuum degasser troubleshooting 141
- 4.9 Column cooler/heater troubleshooting 142
- 4.10 Troubleshooting detector 143

5 High Performance thin Layer Chromatography (HPTLC) **145**

- 5.1 Introduction 146
- 5.2 Features of HPTLC 147
- 5.3 Technical aspects of HPTLC–HPLC 148
- 5.4 Various steps involved in HPTLC 149
 - I. Sample application 149
 - A. Selection of chromatographic layer/HPTLC plates 149
 - a. Sorbents used in HPTLC plates (pre-coated plates) 150
 - b. Plate size 151
 - c. Layer thickness 151
 - d. Particle size of the sorbents 152
 - B. Pre-washing of pre-coated plates 152
 - a. Ascending method 152
 - b. Dipping method 152
 - c. Continuous method 153
 - C. Activation of pre-coated plates 153
 - D. Sample and standard preparation 153
 - a. Application of the sample and standard solution 154
 - b. Advantages of application of sample as band 154
 - II. Chromatogram development 155
 - A. Selection of mobile phase 155
 - B. Pre-conditioning (chamber saturation) 157
 - C. Chromatographic development and drying 158
 - a. Chromatographic development 158
 - b. Drying 158
 - III. Densitometric chromatographic evaluation 159
 - A. TLC scanner 159
 - B. Detection and visualization 159
 - i. Qualitative detection 160
 - ii. Quantitative detection 160
 - IV. Photo documentation in TLC/HPTLC 161
 - V. Validation of analytical method 164
- 5.5 Comparison of HPLC and HPTLC 166
- 5.6 Comparison of HPTLC and TLC 167
- 5.7 Applications of HPTLC 167

6. HPTLC Method Development and Method Validation 180

- 6.1 Introduction 180
- 6.2 Method development in HPTLC 181
- 6.3 HPTLC method validation 181
- 6.4 Methodology for HPTLC analysis 184
 - A. Stationary phase 184
 - B. Mobile phase 184
 - C. Layer pre-washing 185
 - D. Preparation and selection of HPTLC plates 185
 - E. Sample preparation 186
 - F. Application of sample 186
 - G. Development of optimum mobile phase 188
 - H. Solvent polarity 189
 - I. Chromatographic development 189
 - J. Densitometric chromatogram evaluation (scanning) 199
 - K. Quantitative estimation 199
 - i. Estimation of sennoside B from capsule 199
 - ii. Estimation of glycyrrhizin from capsule 201
 - iii. Simultaneous estimation of sennoside and glycyrrhizin 203

Questions and Answers 205

- General 205
- Column and column lifetime 207
- Variable retention times 210
- Drifting retention times 211
- Column-to-column and batch-to-batch reproducibility 212
- Sample preparation problems 212
- Gradient system 213
- Degassing 213
- Sources of peak tailing 214
- Reverse phase and normal phase chromatography 215
- System volume, dead volume, dwell volume 216
- Transfer of gradient methods 217
- Clogged system 217
- Column backpressure 217
- Peak area fluctuations 217
- Unsolved questions based on HPLC 218

Experimental 219

- Glossary of HPLC Terms* 231
- Suggested Reading* 237
- Index* 241