

CONTENTS

PART ONE INSTRUMENTATION IN HPLC

1	Basic Principles of the Application of HPLC in Clinical Chemistry	3
2	Pump Systems	30
3	Solvent Systems	40
4	Sample Introduction Systems	45
5	Column Design for Clinical Analysis	53
6	Detectors for Clinical Analysis	69
7	Combination of AHPLC and MS in Clinical Chemistry	82
8	General Guide for HPLC in Clinical Chemistry	91

PART TWO APPLICATIONS OF HPLC IN CLINICAL CHEMISTRY

9	HPLC in the Analysis of Amino Acids	97
10	HPLC in the Analysis of Alkaloids	155
11	HPLC in the Analysis of Antibiotics	195
12	HPLC in the Analysis of Aflatoxins	224
13	HPLC in the Analysis of Barbiturates	242
14	HPLC in the Analysis of Carbohydrates	262
15	HPLC in the Analysis of Catecholamines	287
16	HPLC in the Analysis of Drugs/Street Drugs	315
17	HPLC in the Analysis of Enzyme Activity	342
18	HPLC in the Analysis of Enzyme Activity	342
19	HPLC in the Analysis of Lipids and Lipoproteins	360
20	HPLC in the Analysis of Prostaglandins	391
21	HPLC in the Analysis of Steroids	413
22	HPLC in the Analysis of Tocopherols	428
23	HPLC in the Analysis of Vitamins	440
	Index	481