

CONTENTS

I. CHOLESTEROL	1
1. Structure	1
2. Biosynthesis	3
3. Disposition	9
4. Clinical Significance	12
5. Analysis	14
II. STEROLS	17
1. Structure	17
2. Tetracyclic Triterpenes	20
3. C ₂₇ Sterols	23
4. C ₂₈ Sterols	26
5. C ₂₉ Sterols	28
6. Analysis	31
III. VITAMIN D GROUP	34
1. Photoisomers	34
2. Biological Activity	37
3. Nutrition	39
4. Analysis	42
IV. STEROID SAPOGENINS AND ALKALOIDS	45
1. Structure of Sapogenins	45
2. Characteristics of Sapogenins and Saponins	48
3. Solanum Alkaloids	53
4. Kurchi Alkaloids	56
5. Veratrum Alkaloids	58
V. CARDIAC GLYCOSIDES	61
1. Cardenolides	61
2. Bufadienolodes	69
3. Pharmacology	73
4. Analysis	75
5. Digitanol Glycosides	77

VI. BILE ACIDS	79
1. Coprostane Derivatives	79
2. Cholanic Acids	81
3. Biogenesis and Metabolism	84
4. Physiology	89
5. Analysis	91
VII. PROGESTERONE	93
1. Synthesis	93
2. Metabolism	97
3. Endocrinology	101
4. Analysis	103
5. Analogs	105
VIII. CORTICOSTEROIDS	111
1. Biosynthesis	111
2. Metabolism	117
3. Endocrinology	124
4. Analysis	128
5. Analogs	130
IX. ANDROGENS	138
1. Biosynthesis	138
2. Metabolism	143
3. Endocrinology	146
4. Analysis	149
5. Analogs	150
X. ESTROGENS	155
1. Metabolism	155
2. Endocrinology	161
3. Analysis	164
4. Analogs	166
LITERATURE	173
1. Organic	173
2. Analytical Chemistry	175
3. Biochemistry	176
4. Sterols	179
5. Vitamin D Group	183

6. Saponins	184
7. Alkaloids	184
8. Cardiac Glycosides	185
9. Bile Acids	186
10. Hormones	187
11. Progesterone	198
12. Corticosteroids	199
13. Androgens	212
14. Estrogens	214
15. Unclassified Literature Added in Proof	216
Subject Index	219