

CONTENT

General introduction	1
I. Physical Chemical Methods for Separation and Identification of Biologically Important Compounds	5
A. DISTILLATION AT LOW PRESSURES	6
B. COUNTERCURRENT DISTRIBUTION	15
C. COLUMN CHROMATOGRAPHY	25
D. FILTER PAPER CHROMATOGRAPHY	44
E. ZONE ELECTROPHORESIS	63
II. Biochemistry of Enzymes	71
INTRODUCTION	71
III. Radioactive Isotope Tracer Techniques in Biochemical Research	137
A. PROCEDURES FOR MEASUREMENT OF RADIOACTIVITY	137
B. APPLICATION OF RADIOACTIVE ISOTOPES IN BIOCHEMICAL RESEARCH	150
Appendixes	173
I. GLASS-BLOWING EXERCISE	173
II. FOLIN-CIOCALTEU METHOD FOR PROTEIN	176
III. FISKE-SUBBAROW DETERMINATION OF PHOSPHATE	177
IV. COMPOUNDS SUITABLE FOR BUFFERS IN THE RANGE Ph 6-8.05	178
V. NOTES TO INSTRUCTORS	179
VI. LIST OF MAJOR EQUIPMENT	181
VII. LOCKER INVENTORY	182
INDEX	185