

SUBJECT INDEX

- Acid phosphatase
Kinetic aspects of the mechanism of action of an — from baker's yeast (*Saccharomyces cerevisiae*) (BOER, STEYN-PARVÉ) (171) 360
- Acid proteinase
Thyroid —: Properties and inactivation by diazoacetyl-norleucine methyl ester (SMITH et al.) (171) 288
- Acyltrypsin
Hydrophobic interactions of some alcohols with — (SEYDOUX et al.) (171) 145
- Adenine nucleotide deaminase
Non-specific — from *Desulfovibrio desulfuricans* (YATES) (171) 299
- Adenosine deaminase
Preparative isolation of the isoenzymes of — from bovine mucosa by ion-exchange chromatography (MURPHY et al.) (171) 157
- Adenosine monophosphate
Presence in liver of a 3',5'-cyclic — stimulated kinase for the I form of UDPG-glycogen glucosyltransferase (BISHOP, LARNER) (171) 374
- Allosteric regulation
Citrate synthases: — and molecular size (WEITZMAN, DUNMORE) (171) 198
- δ -Aminolevulinic acid dehydratase
Metalloprotein nature of *Ustilago* — (KOMAI, NEILANDS) (171) 311
- α -L-Arabinofuranosidase
Properties of purified — from *Aspergillus niger* (KAJI et al.) (171) 186
- Ascorbate oxidation
Tryptophan oxygenase activation and — in whole homogenates from rat liver (SEGLEN, JERVELL) (171) 47
- Aspartate aminotransferase
Phosphorylation of threonine residue in apo- — during the inhibition with N-(pyridoxyl-5'-phosphate)-L-glutamic acid (KHOMUTOV et al.) (171) 201
- ATP:arginine phosphotransferase
New form of — of molecular weight 160 000 (ROBIN et al.) (171) 357
- Brain esterases
Isolation and properties of some molecular species of human — (ESTRUGO et al.) (171) 265
- Carbamyl phosphate synthetase
Carbon dioxide fixation by — of *Escherichia coli*. Evidence for a reversibly formed intermediate (DUFFIELD et al.) (171) 189
- Carbon dioxide fixation
— by carbamyl phosphate synthetase of *Escherichia coli*. Evidence for a reversibly formed intermediate (DUFFIELD et al.) (171) 189
- Carbonic anhydrases
Comparative physical data on the — of human A and B erythrocytes (REYNAUD et al.) (171) 363
- Carboxylesterases
Homology of the active-site peptides of liver — (AUGUSTEYN et al.) (171) 128
- Chelatase
Metalloporphyrin — from barley (GOLDIN, LITTLE) (171) 321
- Citrate synthases
—: Allosteric regulation and molecular size (WEITZMAN, DUNMORE) (171) 198
- Cysteine lyase
Reactions catalysed by — from the yolk sac of chicken embryo (TOLOSA et al.) (171) 369
- Cytochrome P-420
Relationship between the interconversion of cytochrome P-450 and — and its activities in hydroxylations and demethylations by P-450 oxidase systems (ICHIKAWA et al.) (171) 32
- Cytochrome P-450
Problem of possible other forms of — in liver microsomes (SCHENKMAN et al.) (171) 23
- Cytochrome P-450
Relationship between the interconversion of — and cytochrome P-420 and its activities in hydroxylations and demethylations by P-450 oxidase systems (ICHIKAWA et al.) (171) 32
- Cytochrome P-450 oxidase systems
Relationship between the interconversion of cytochrome P-450 and P-420 and its activities in hydroxylations and demethylations by — (ICHIKAWA et al.) (171) 32
- Deoxyribonucleases
Drosophila —. I. Variation of deoxyribonucleases in *Drosophila melanogaster* (BOYD) (171) 103
- Drosophila melanogaster*
Deoxyribonucleases. I. Variation of deoxyribonucleases in — (BOYD) (171) 103
- Endopeptidases
Contamination of DFP-treated leucine aminopeptidase with multiple — (DEFLOS, POTTS JR.) (171) 121
- Escherichia coli* K 12
Study of chlorate-resistant mutants in —. I. Reconstitution in vitro of the particulate nitrate reductase activity in *Escherichia coli* K 12 (AZOULAY et al.) (171) 238
- Esterases
Isolation and properties of some molecular species of human brain — (ESTRUGO et al.) (171) 265

- Glucosephosphate isomerase
 Partial purification of erythrocyte — (SMITH, McCANTS) (171) 372
- Glutamate dehydrogenase
 — in *Nitrosomas europaea* and the effect of hydroxylamine, oximes and related compounds on its activity (WALLACE, NICHOLAS) (171) 229
- L-Glutamine-D-fructose-6-phosphate amidotransferase
 Control of — in bovine retina (MAZLEN et al.) (171) 352
- Homoserine dehydrogenase
 Studies on the catalytic and regulatory properties of — of *Zea mays* roots (BRYAN) (171) 205
- 21-Hydroxysteroid dehydrogenase
 Partial purification of an NADPH-dependent — from human placenta (MONDER, MARTINSON) (171) 217
- Lactate dehydrogenase
 Simplification of mouse — electrophoretic patterns (DUDMAN, ZERNER) (171) 195
- Leucine aminopeptidase
 Contamination of DFP-treated — with multiple endopeptidases (DEFTOS, POTTS JR.) (171) 121
- Metalloporphyrin chelatase
 — from barley (GOLDIN, LITTLE) (171) 321
- Microsomes
 Problem of possible other forms of cytochrome P_{450} in liver — (SCHENKMAN et al.) (171) 23
- Milk-clotting enzyme
 — from microorganisms. VI. Properties of crystalline milk-clotting enzyme (*Mucor rennin*) isolated from *Mucor pusillus* var. Lindt (YU et al.) (171) 138
- Mucor pusillus*
 Milk-clotting enzyme from microorganisms. VI. Properties of crystalline milk-clotting enzyme (*Mucor rennin*) isolated from — var. Lindt (YU et al.) (171) 138
- NAD pyrophosphatase
 — of *Cambaroides japonica* (YAMAGUCHI et al.) (171) 167
- Nitrate reductase
 Study of chlorate-resistant mutants in *Escherichia coli* K 12. I. Reconstitution in vitro of the particulate — activity in *Escherichia coli* K 12 (AZOULAY et al.) (171) 238
- Nitrogenase
 Properties of purified — of *Azotobacter chroococcum* (KELLY) (171) 9
- Nitrogenase system
 — from *Azotobacter*: Activation energy and divalent cation requirement (BURNS) (171) 253
- Papain
 Activity of — in the crystalline state (SLUYTERMAN, DE GRAAF) (171) 277
- Phosphatase
 Kinetic aspects of the mechanism of action of an acid — from baker's yeast (*Saccharomyces cerevisiae*); (BOER, STEYN-PARVÉ) (171) 360
- Phosphatase
 Potassium-dependent — activity observed in the presence of both ATP and sodium (YOSHIDA et al.) (171) 178
- Phosphatidylinositol kinase
 Properties and subcellular distribution of — in mammalian tissues (HARWOOD, HAWTHORNE) (171) 75
- 2',3'-cyclic Phosphodiesterase
 Chloride ion as a modifier of — purified from halophilic *Vibrio alginolyticus* (UNEMOTO, HAYASHI) (171) 89
- 5'-Phosphoribosylpyrophosphate amidotransferase
 Properties of — in virus induced murine leukemia (REEM, FRIEND) (171) 58
- Placenta
 Partial purification of an NADPH-dependent 21-hydroxysteroid dehydrogenase from human — (MONDER, MARTINSON) (171) 217
- Potassium-dependent phosphatase
 — activity observed in the presence of both ATP and sodium (YOSHIDA et al.) (171) 178
- Proteinase
 Thyroid acid —: Properties and inactivation by diazoacetyl-norleucine methyl ester (SMITH et al.) (171) 288
- N-(Pyridoxyl-5'-phosphate)-L-glutamic acid
 Phosphorylation of threonine residue in apo-aspartate aminotransferase during the inhibition with — (KHOMUTOV et al.) (171) 201
- Pyruvate kinase
 Inhibition of — by free fatty acids in rat heart muscle (TSUTSUMI, TAKENAKA) (171) 355
- Rennin
 Milk-clotting enzyme from microorganisms. VI. Properties of crystalline milk-clotting enzyme (*Mucor* —) isolated from *Mucor pusillus* var. Lindt (YU et al.) (171) 138
- Retina
 Control of L-glutamine-D-fructose-6-phosphate amidotransferase in bovine — (MAZLEN et al.) (171) 352
- Ribonuclease
 Rat serum — (UMEDA et al.) (171) 260
- RNA polymerase
 Partial purification of — from rat liver nuclei (GOLDBERG et al.) (171) 192
- RNA polymerase
 Soluble — from rat liver nuclei (CUNNINGHAM et al.) (171) 67
- Serine sulphhydrase
 Reactions catalysed by — from chicken liver (BRAUNSTEIN et al.) (171) 366

- Seryl-tRNA synthetase
 Purification and some properties of
 from rat liver (ROUGE) (171) 342
- Sulphatase
 Isolation of a novel . . . from rat liver
 (TUDBALL, DAVIDSON) (171) 113
- Tryptophan oxygenase
 . . . - activation and ascorbate oxidation in
 whole homogenates from rat liver (SEGLEN,
 JERVELL) (171) 47
- Tyramine oxidase
 Properties of crystalline . . . from *Sarcina*
 lutea (KUMAGAI et al.) (171) 1
- Tyrosine hydroxylase
 A kinetic study of particulate bovine ad-
 renal — (JOH et al.) (171) 378
- Uridine diphosphate glucose-glycogen gluco-
 syltransferase
 Presence in liver of a 3',5'-cyclic adenosine
 monophosphate stimulated kinase for the
 I form of — (BISHOP, LARNER) (171) 374
- Uridine diphosphogalactose 4-epimerase
 Characteristics and developmental aspects
 of rat . . . (COHN, SEGAL) (171) 333