

SUBJECT INDEX

- Acetylcholinesterase
— sensitive to sulphydryl inhibitors
(Zahavi et al.) (276) 577
- Acetylcholinesterase
Covalent affinity column for the purification of — (Ashani, Wilson) (276) 317
- Acetyl coenzyme A
Kinetic studies with phosphotransacetylase.
III. The acylation of phosphate ions by —
(Kyrtopoulos, Satchell) (276) 376
- Adenosine deaminase
Multiple forms of human —. I. Purification and characterisation of two molecular species (Akedo et al.) (276) 257
- Adenosyltransferase
Rapid assay procedure for ATP: L-methionine — (Chou, Lombardini) (276) 399
- Adenylate kinase
Inhibition of rabbit skeletal muscle — by the transition state analogue, P^i , P^d -di-(adenosine-5')tetraphosphate (Purich, Fromm) (276) 563
- Adenyl cyclase
Comparison of the effects of Ca^{2+} and Mg^{2+} on the — of beef brain (Bradham) (276) 434
- Affinity chromatography
Purification of tyrosine aminotransferase by — (Miller, Jr, et al.) (276) 407
- Alcohol dehydrogenase isoenzymes
Separation and characterisation of long-chain — from *Pseudomonas aeruginosa* (Tassin, Vandecasteele) (276) 31
- Allosteric properties
— of enzymes with "ping-pong" mechanism (Sumi, Ui) (276) 12
- Allosteric properties
Pyruvate carboxylase. Inactivation by sulphydryl-group reagents in the presence of certain inorganic anions, substrates, and modifiers and the effect on the — of the enzyme (Palacián, Neet) (276) 297
- D-Amino acid oxidase
Isolation of peptides containing particularly reactive lysine residues using — (Mizon et al.) (276) 63
- D-Amino acid oxidase
Reactivity of — with artificial electron acceptors (Rao et al.) (276) 350
- β -Amylase
Hydrolysis of maltodextrins by a — isolated from leaves of *Vicia faba* (Chapman, Jr, et al.) (276) 491
- Angiotensin-converting enzyme
— and a second dipeptidyl carboxypeptidase from hog plasma (Angus et al.) (276) 228
- Arylesterase
Membrane marker enzymes: Characterisation of an — of guinea pig cerebral cortex utilising p-nitrophenyl acetate as substrate (Bosmann) (276) 180
- Arylsulphatase A
Kinetic properties of — from human kidneys (Stinshoff) (276) 475
- ATP: L-methionine adenosyltransferase
Rapid assay procedure for — (Chou, Lombardini) (276) 399
- Brain
Comparison of the effects of Ca^{2+} and Mg^{2+} on the adenyl cyclase of beef — (Bradham) (276) 434
- Calcium
Comparison of the effects of — and Mg^{2+} on the adenyl cyclase of beef brain (Bradham) (276) 434
- Carboxypeptidase
Angiotensin-converting enzyme and a second dipeptidyl — from hog plasma (Angus et al.) (276) 228
- Carboxypeptidase A
On subunit II of bovine pro—. Properties after alkaline dissociation (Puigserver et al.) (276) 519
- Carboxypeptidase A
On subunit II of bovine —. Enzymatic specificity after tryptic activation (Keil-Dlouha et al.) (276) 531
- Carboxypeptidase G_1
Activation and inhibition of — by divalent cations (Chabner, Bertino) (276) 234
- Cathepsin C
Water-insoluble enzymes for peptide sequencing: Dipeptidyl aminopeptidase I (—), an enzyme with subunit structure (Calam, Thomas) (276) 328
- Chlorella
Ferrodoxin:nitrite oxidoreductase from —. Purification and properties (Zumft) (276) 363
- α -Chymotrypsin
Effect of glass and silica surface on trypsin and — kinetics (Johnson, Whateley) (276) 323
- Collagenase substrate
Purification and properties of a peptidase acting on a synthetic — from experimental granuloma tissue in the rat (Aswanikumar, Radhakrishnan) (276) 241
- Cyclic AMP
— stimulated protein kinase from amphibian ovary and oocytes (Tenner, Wallace) (276) 416
- Cyclic 3',5'-AMP phosphodiesterase
— of human blood lymphocytes (Lagarde, Colobert) (276) 444
- Cyclic nucleotide phosphodiesterase
— in pea seedlings (Lin, Varner) (276) 454

- Cystathionine γ -synthase:
 —: Studies on the γ replacement reaction (Posner) (276) 277
- Cysteine sulphinate decarboxylase
 Rat liver —: Some observations about substrate specificity (Guion-Rain, Chatagner) (276) 272
- Dalziel rate behaviour
 — in ternary-complex mechanisms for enzyme reactions involving two substrates (Pettersson) (276) 1
- Development
 Ethanolamine phosphokinase: Activity and properties during liver — (Weinhold, Rethy) (276) 143
- Dipeptidyl aminopeptidase I
 Water-insoluble enzymes for peptide sequencing: — (cathepsin C), an enzyme with subunit structure (Calam, Thomas) (276) 328
- Dipeptidyl carboxypeptidase
 Angiotensin-converting enzyme and a second — from hog plasma (Angus et al.) (276) 228
- Electron acceptors
 Reactivity of D-amino acid oxidase with artificial — (Rao et al.) (276) 350
- Endopolygalacturonase
 On the character of the interaction of — with cross-linked pectic acid. (Rexová-Benková) (276) 215
- Ethanolamine phosphokinase:
 —: Activity and properties during liver development (Weinhold, Rethy) (276) 143
- Ferredoxin
 —: Nitrite oxidoreductase from *Chlorella*. Purification and properties (Zumft) (276) 363
- Fructose diphosphatase
 Possible regulatory characteristics of the — -phosphoribulokinase complex from *Rhodospirillum rubrum* (Joint et al.) (276) 333
- Glass and silica surface
 Effect of — on trypsin and α -chymotrypsin kinetics (Johnson, Whateley) (276) 323
- β -Glucanase
 Intracellular — activity of *Phytophthora palmivora* (Holten, Bartnicki-Garcia) (276) 221
- Glucono- δ -lactonase
 — from *Escherichia coli* (Hucho, Wallenfels) (276) 176
- Glucose-6-phosphate dehydrogenase
 Isoenzymes of NADP⁺- and NAD⁺ — and 6-phosphogluconate dehydrogenase in rat adipose tissue (Beitner, Naor) (276) 572
- Glucuronyltransferase
 Studies of the activation of UDP- — (Graham, Wood) (276) 392
- L-Glutamine: D-fructose-6-phosphate aminotransferase
 Biosynthesis of respiratory tract mucins. II. Control of hexosamine metabolism by — (Ellis, Sommar) (276) 105
- Glycogen synthase
 Inactivation of — by the tumour inhibitor vernolepin (Smith et al.) (276) 94
- Guanosine 5'-diphosphate D-mannose oxidoreductase
 Purification of — from *Phaseolus vulgaris* (Liao, Barber) (276) 85
- Hexokinases
 Molecular weight of rat brain — (Wilson) (276) 568
- Hexosamine metabolism
 Biosynthesis of respiratory tract mucins. II. Control of — by L-glutamine:D-fructose-6-phosphate aminotransferase (Ellis, Sommar) (276) 105
- Immobilized
 Studies on pH-activity profiles of an — two-enzyme system (Gestrelus et al.) (276) 339
- Lipase
 Action of organophosphates and sulphonyl halides on pancreatic — (Maylié et al.) (276) 162
- Lipoamide dehydrogenase
 Studies on the distribution and properties of the multiple forms of mammalian — (Cohn, McManus) (276) 70
- Long-chain alcohol dehydrogenase isoenzymes
 Separation and characterisation of — from *Pseudomonas aeruginosa* (Tassin, Vandecasteele) (276) 31
- Magnesium
 Comparison of the effects of Ca²⁺ and — on the adenyl cyclase of beef brain (Bradham) (276) 434
- Malate dehydrogenase
 Electrophoretic migration and redox behaviour of — from cell suspension cultures of tobacco (de Jong, Olson) (276) 53
- Marker enzymes
 Membrane —: Characterisation of an arylesterase of guinea pig cerebral cortex utilising p-nitrophenyl acetate as substrate (Bosmann) (276) 180
- Membrane marker enzymes
 —: Characterisation of an arylesterase of guinea pig cerebral cortex utilising p-nitrophenyl acetate as substrate (Bosmann) (276) 180
- Molecular weight
 — of rat brain hexokinases (Wilson) (276) 568
- Mucins
 Biosynthesis of respiratory tract —. II. Control of hexosamine metabolism by L-glutamine:D-fructose-6-phosphate aminotransferase (Ellis, Sommar) (276) 105
- Multiple forms
 Studies on the distribution and properties of the — of mammalian lipoamide dehydrogenase (Cohn, McManus) (276) 70
- Myrosinase
 Studies on myrosinases. I. Purification and characterisation of a — from white mustard seed (*Sinapis alba*, L.) (Björkman, Janson) (276) 508

- Nitrite oxidoreductase
 Ferredoxin: — from *Chlorella*. Purification and properties (Zumft) (276) 363
- 5'-Nucleotidases
 Studies on — of rat liver (Pletsch, Coffey) (276) 192
- Nucleotides
 Enzymatic synthesis of thiophosphate analogs of — (Goody et al.) (276) 155
- Organophosphates
 Action of — and sulphonyl halides on pancreatic lipase (Maylié et al.) (276) 162
- Pectic acid
 On the character of the interaction of endopolygalacturonase with cross-linked — (Rexová-Benková) (276) 215
- Penicillin amidase
 Isolation and kinetics of — from *Escherichia coli* (Balasingham et al.) (276) 250
- Peptidase
 Purification and properties of a — acting on a synthetic collagenase substrate from experimental granuloma tissue in the rat (Aswanikumar, Radhakrishnan) (276) 241
- Peptide sequencing
 Water-insoluble enzymes for —: Dipeptidyl aminopeptidase I (cathepsin C), an enzyme with subunit structure (Calam, Thomas) (276) 328
- pH-activity profiles
 Studies on — of an immobilized two-enzyme system (Gestrelus et al.) (276) 339
- Phosphodiesterase
 Cyclic 3',5'-AMP — of human blood lymphocytes (Lagarde, Colobert) (276) 444
- Phosphodiesterase
 Cyclic nucleotide — in pea seedlings (Lin, Varner) (276) 454
- Phosphodiesterase II
 Substrates for cytochemical demonstration of enzyme activity V. Kinetics of the hydrolysis of thymidine 3'-(5-bromo-4-chloroindol-3-yl) phosphate by — (Horwitz et al.) (276) 206
- Phosphodiesterases
 Characterization of the specificity of intracellular — in *Bacillus subtilis* (Felicoli et al.) (276) 584
- Phosphoenolpyruvate carboxylase
 Mechanism of inhibition of — by quino-
 linic acid (McDaniel et al.) (276) 543
- Phosphoenolpyruvate carboxylase
 Sheep kidney —. Purification and properties (Barns, Keech) (276) 284
- Phosphoenolpyruvate carboxylase
 Sheep kidney —. Control of enzymic activity by oxaloacetate (Barns, Keech) (276) 536
- Phosphofructokinase
 Human erythrocyte —: Its purification and some properties (Staal et al.) (276) 113
- Phosphofructokinase
 Kinetic studies on — from Ehrlich ascites tumor cells (Sumi, Ui) (276) 19
- 6-Phosphogluconate dehydrogenase
 Isoenzymes of NADP⁺- and NAD⁺-glucose-6-phosphate dehydrogenase and — in rat adipose tissue (Beitner, Naor) (276) 572
- Phosphoribulokinase
 Possible regulatory characteristics of the fructose diphosphatase — complex from *Rhodospirillum rubrum* (Joint et al.) (276) 333
- Phosphotransacetylase
 Kinetic studies with —. III. The acylation of phosphate ions by acetyl coenzyme A (Kyrtopoulos, Satchell) (276) 376
- Phosphotransacetylase
 Kinetic studies with —. IV. Inhibition by products (Kyrtopoulos, Satchell) (276) 383
- "Ping-pong" mechanism
 Allosteric properties of enzymes with — (Sumi, Ui) (276) 12
- Procarboxypeptidase A
 On subunit II of bovine —. Properties after alkaline dissociation (Puigserver et al.) (276) 519
- Procarboxypeptidase A
 On subunit II of bovine —. Enzymatic specificity after tryptic activation (Keil-Dlouha et al.) (276) 531
- Protein kinase
 Cyclic AMP-stimulated — from amphibian ovary and oocytes (Tenner, Wallace) (276) 416
- Pyruvate carboxylase
 —. Inactivation by sulphhydryl-group reagents in the presence of certain inorganic anions, substrates, and modifiers and the effects on the allosteric properties of the enzyme (Palacián, Neet) (276) 297
- Pyruvate kinase
 Distribution of L- and M-type — between parenchymal and Kupffer cells of rat liver (van Berkel et al.) (276) 425
- Pyruvate kinase
 Effect of phosphoenolpyruvate, fructose 1,6-diphosphate and pH on allosteric — in muscle tissue of the bivalve *Mytilus edulis* L. (de Zwaan, Holwerda) (276) 430
- Radical processes
 Fast consecutive — within the ribonuclease molecule in aqueous solution: II. Reaction with OH radicals and hydrated electrons (Lichtin et al.) (276) 124
- Redox behaviour
 Electrophoretic migration and — of malate dehydrogenase from cell suspension cultures of tobacco (de Jong, Olson) (276) 53
- Rhodospirillum rubrum*
 Possible regulatory characteristics of the fructose diphosphatase-phosphoribulokinase complex from — (Joint et al.) (276) 333
- Ribonuclease
 Fast consecutive radical processes within the — molecule in aqueous solution: II. Reaction with OH radicals and hydrated electrons (Lichtin et al.) (276) 124

- Shikimate dehydrogenase
 Anomalous inhibition of — by analogues of dehydroshikimate (Dowsett et al.) (276) 344
- Sulphonyl halides
 Action of organophosphates and — on pancreatic lipase (Maylié et al.) (276) 162
- Sulphydryl-group reagents
 Pyruvate carboxylase. Inactivation by — in the presence of certain inorganic anions, substrates, and modifiers and the effects on the allosteric properties of the enzyme (Palacián, Neet) (276) 297
- Sulphydryl inhibitors
 An acetylcholinesterase sensitive to — (Zahavi et al.) (276) 577
- Ternary-complex mechanisms
 Dalziel rate behaviour in — for enzyme reactions involving two substrates (Pettersson) (276) 1
- Thiophosphate analogs
 Enzymatic synthesis of — of nucleotides (Goody et al.) (276) 155
- Trypsin
 Effect of glass and silica surfaces on — and α -chymotrypsin kinetics (Johnson, Whateley) (276) 323
- Tryptic activation
 On subunit II of bovine procarboxypeptidase A. Enzymatic specificity after — (Keil-Dlouha et al.) (276) 531
- Tyrosine aminotransferase
 Purification of — by affinity chromatography (Miller, Jr, et al.) (276) 407
- UDP-glucuronyltransferase
 Studies of the activation of — (Graham, Wood) (276) 392
- Uridine diphosphoglucose dehydrogenase
 — from rat liver: Purification and effect of pH on regulatory properties (Sivaswami et al.) (276) 43
- Vernolepin
 Inactivation of glycogen synthase by the tumour inhibitor — (Smith et al.) (276) 94