

SUBJECT INDEX

- Acetylcholinesterase
Inhibition and reactivation of — modified by reaction with 1,1-dimethyl-2-phenylaziridinium ion (McIvor), 198 (1970) 143
- Adenosine deaminase
Latent — in mouse brain. I. Exposure and solubilization of the mitochondrial enzyme (Mustafa, Tewari), 198 (1970) 93
- Adenosine 5'-phosphosulphate
Enzymatic dephosphorylation of 3'-phosphoadenosine 5'-phosphosulphate to — in sheep brain (Farooqui, Balasubramanian), 198 (1970) 56
- Adenosine 5'-phosphosulphate
Properties and sub-cellular distribution of two sulphatases which degrade — (Armstrong et al.), 198 (1970) 523
- Adenylosuccinate synthetase
Specific binding to — of analogs of inosinic acid with nitrogen, sulphur and carbon substituted for phosphate oxygens (Hampton, Chu), 198 (1970) 594
- Allantoicase
Effect of metal and hydrogen ions on the activity and stability of — (Van der Drift, Vogels), 198 (1970) 339
- Allantoicase
Hydrolysis, racemization and absolute configuration of ureidoglycolate, a substrate of — ('s-Gravenmade et al.), 198 (1970) 569
- D-Amino-acid oxidase
Modification of — apoenzyme by pyridoxal 5'-phosphate (Miyake, Yamano), 198 (1970) 438
- L-Amino-acid oxidase
 α -Substituted cystines as possible substrates for cystine reductase and — (Carroll et al.), 198 (1970) 601
- α -Aminoadipate aminotransferase
— of rat liver mitochondria (Nakatani et al.), 198 (1970) 219
- 2-Amino-4,6-dichloro-s-triazine
Chemical attachment of chymotrypsin to water-insoluble polymers using — (Kay, Lilly), 198 (1970) 276
- Aminopeptidase A
Purification of — in human serum and degradation of angiotensin II by the purified enzyme (Nagatsu et al.), 198 (1970) 255
- AMP aminohydrolase
Muscle —. III. A comparative study on the regulatory properties of skeletal muscle enzyme from various species (Ronca-Testoni et al.), 198 (1970) 101
- Amylo-1,6-glucosidase
Studies on the action of — (Nelson, Larner), 198 (1970) 538
- Angiotensin II
Purification of aminopeptidase A in human serum and degradation of — by the purified enzyme (Nagatsu et al.), 198 (1970) 255
- Asparaginase
 β -Cyanoalanine as a substrate for —. Stoichiometry, kinetics, and inhibition (Lauinger, Ressler), 198 (1970) 316
- Aspartate transcarbamoylase
Activation of — by purine nucleotides (Chroboczek Kelker), 198 (1970) 20
- Aspergillus flavus
Specificity of alkaline proteinase of — (Turková, Mikeš), 198 (1970) 386
- ATP-incorporating enzyme
— from rat brain. I. Solubilization and requirements (Gurgo et al.), 198 (1970) 31
- ATPase
Effect of hydroxylamine, mercaptans, divalent metals and chelators on sodium + potassium —. A possible control mechanism (Bader et al.), 198 (1970) 583
- ATPase
Sodium, potassium-requiring —. V. Preparation and assay of a solubilized Na⁺-stimulated ADP-ATP exchange (Rendi), 198 (1970) 113
- ATPase
Stability and ligand sensitivity of [³H]-ouabain binding to (sodium + potassium) — (Tobin, Sen), 198 (1970) 120
- Autolytic enzyme
Problems in purification of a *Bacillus subtilis* — caused by association with teichoic acid (Brown et al.), 198 (1970) 308
- Butyrylcholinesterase
Inhibition of — by methanesulphonyl fluoride (Pavlič), 198 (1970) 389
- Butyrylcholinesterase
Ionisation of horse serum — (Wang), 198 (1970) 236
- Carbamyl phosphate biosynthesis
— in *Bacillus subtilis* (Issaly et al.), 198 (1970) 482
- Catalase
Peroxidatic activity of — (Kremer), 198 (1970) 199
- Cathepsin C
—: An allosteric enzyme (Gorter, Gruber), 198 (1970) 546
- Cells
Enzyme-substrate kinetics associated with transient state condition in single living — (Kohen et al.), 198 (1970) 1
- Chymotrypsin
Chemical attachment of — to water-insoluble polymers using 2-amino-4,6-dichloro-s-triazine (Kay, Lilly), 198 (1970) 276
- Collagenase

- Effect of — preparations contaminated with phospholipase C activity on adipose tissue lecithin (Elsbach, Rizack), 198 (1970) 82
- Collagenase
Separation of — and peptidase activities of tadpole tissues in culture (Harper, Gross), 198 (1970) 286
- β -Cyanoalanine
— as a substrate for asparaginase. Stoichiometry, kinetics, and inhibition (Lauinger, Ressler), 198 (1970) 316
- Cysteine desulphydrase
— activities of *Salmonella typhimurium* and *Escherichia coli* (Guarneros, Ortega), 198 (1970) 132
- Cystine reductase
 α -Substituted cytines as possible substrates for — and L-amino-acid oxidase (Carroll et al.), 198 (1970) 601
- 3-Deoxy-D-arabino-heptulosonate-7-phosphate synthase
Isoenzymes and allosteric inhibition of *Neurospora crassa* — (Doy), 198 (1970) 364
- Diabetes
Liver microsomal inorganic pyrophosphate-glucose phosphotransferase and glucose-6-phosphatase. Effects of — and insulin administration on kinetic parameters (Hanson, Nordlie), 198 (1970) 66
- Diamine oxidase
Indirect evidence for the production of superoxide anion radicals by pig kidney — (Rotilio et al.), 198 (1970) 618
- Diaminopimelate decarboxylase
— from *Lactobacillus arabinosus* (Norton, Chen), 198 (1970) 610
- 1,1-Dimethyl-2-phenylaziridinium
Inhibition and reactivation of acetylcholinesterase modified by reaction with — (McIlvor), 198 (1970) 143
- Enterokinase
Cellular localization of — (Nordström, Dahlqvist), 198 (1970) 621
- Enzyme modifier action
Equilibrium kinetic study of — (Silverstein), 198 (1970) 148
- Enzyme report
Revision of the — (Hoffmann-Ostenhof, IUPAC-IUB Commission), 198 (1970) 636
- Enzyme-substrate kinetics
— associated with transient state condition in single living cells (Kohen et al.), 198 (1970) 1
- Fluorosuccinic acids
Metabolism and enzymology of —. I. Interactions with the succinate oxidase system (Brodie, Nicholls), 198 (1970) 423
- Formamidase
Purification and properties of — from rat liver (Shinohara, Ishiguro), 198 (1970) 324
- Galactose oxidase
New substrate for — (Zancan, Amaral), 198 (1970) 146
- Glucose dehydrogenase
— from pig liver. I. Isolation and purification (Thompson, Carper), 198 (1970) 397
- Glucose-6-phosphatase
Liver microsomal inorganic pyrophosphate-glucose phosphotransferase and —. Effects of diabetes and insulin administration on kinetic parameters (Hanson, Nordlie), 198 (1970) 66
- Glucose-6-phosphate dehydrogenase
Purification and properties of — from the thermophilic fungus *Penicillium dupontii* (Broad, Shepherd), 198 (1970) 407
- Glutamine synthetase
— activity in the ruminant spleen (Buttery), 198 (1970) 616
- Glyceraldehyde-3-phosphate dehydrogenase
Effect of NAD^+ on the catalytic efficiency of — from rabbit muscle (Teipel, Koshland Jr.), 198 (1970) 183
- Glyceraldehyde-3-phosphate dehydrogenase
Structure-function studies on —. III. The effects of S-carboxymethylation on enzymatic activity (Fenselau, Weigel), 198 (1970) 192
- α -Glycerolphosphate dehydrogenase
Structural studies on the active center of — (Apitz-Castro, Suarez), 198 (1970) 176
- Hyaluronidase
Novel — from *Streptomyces* (Ohya, Kameko), 198 (1970) 607
- Hydrogenase
Solubilization and properties of the — of Chromatium (Feigenblum, Krasna), 198 (1970) 157
- Inorganic pyrophosphate-glucose phosphotransferase
Liver microsomal — and glucose-6-phosphatase. Effects of diabetes and insulin administration on kinetic parameters (Hanson, Nordlie), 198 (1970) 66
- Inosinic acid
Specific binding to adenylosuccinate synthetase of analogs of — with nitrogen, sulphur and carbon substituted for phosphate oxygens (Hampton, Chu), 198 (1970) 594
- Insulin
Liver microsomal inorganic pyrophosphate-glucose phosphotransferase and glucose-6-phosphatase. Effects of diabetes and — administration on kinetic parameters (Hanson, Nordlie), 198 (1970) 66
- Lecithin
Effect of collagenase preparations contaminated with phospholipase C activity on adipose tissue — (Elsbach, Rizack), 198 (1970) 82
- Lipoxygenase
Isolation of an isozyme of soybean — (Christopher et al.), 198 (1970) 12
- Lipoxygenase
— from peas, purification and properties of the enzyme (Eriksson, Svensson), 198 (1970) 449

- Lysyl transfer RNA synthetase
Aspects of the kinetic properties of —
from *Escherichia coli*, Strain B (Marshall,
Zamecnik), 198 (1970) 376
- Malate dehydrogenases
Purification and properties of *Drosophila*
— (McReynolds, Kitto), 198 (1970) 165
- Mitochondria
 α -Aminoadipate aminotransferase of rat
liver — (Nakatani et al.), 198 (1970) 219
- Neuraminidase isoenzymes
Separation, purification and some properties
of pneumococcal — (Tanenbaum et al.),
198 (1970) 242
- Norepinephrine
Partial separation and properties of tyrosine
hydroxylase from the human pheochromo-
cytoma. Effect of — (Nagatsu et al.), 198
(1970) 210
- Ouabain
Stability and ligand sensitivity of [^3H]—
binding to (sodium + potassium)-ATPase
(Tobin, Sen), 198 (1970) 120
- Papain
Binding of competitive (product) inhibitors
to — in the active and inactive state
(Wolthers, Kalk), 198 (1970) 556
- Penicillinase
Iodine sensitivity of *Bacillus cereus* —
(Cásnyi et al.), 198 (1970) 332
- Pepsin
Determination of the stereospecific hydro-
lytic action of — by nuclear magnetic
resonance spectroscopy (Sachs et al.), 198
(1970) 88
- Peptidase activities
Separation of collagenase and — of tad-
pole tissues in culture (Harper, Gross), 198
(1970) 286
- 3'-Phosphoadenosine 5'-phosphosulphate
Enzymatic dephosphorylation of — to
adenosine 5'-phosphosulphate in sheep
brain (Farooqui, Balasubramanian), 198
(1970) 56
- Phospholipase C
Effect of collagenase preparations con-
taminated with — activity on adipose
tissue lecithin (Elsbach, Rizack), 198 (1970)
82
- Phospholipase C
Purification and properties of *Clostridium*
welchii — (Diner), 198 (1970) 514
- Phosphoribosylpyrophosphate glutamine
amidotransferase
Regulation of the biosynthesis of purine
nucleotides in *Schizosaccharomyces pombe*.
I. Properties of the — of the wild strain
and of a mutant desensitized towards feed-
back modifiers (Nagy), 198 (1970) 471
- Phosphorylase phosphatase activity
Regulation of skeletal muscle —. I.
Kinetic properties of the active and inactive
forms (Torres, Chelala), 198 (1970) 495
- Phosphorylase phosphatase activity
Regulation of skeletal muscle —. II.
Interconversions (Chelala, Torres), 198
(1970) 504
- Porphyrin biosynthesis
—, VII. Porphyrinogen carboxy-lyase
from avian erythrocytes. Purification and
properties (Tomio et al.), 198 (1970) 353
- Porphyrinogen carboxy-lyase
Porphyrin biosynthesis. VII. — from
avian erythrocytes. Purification and proper-
ties (Tomio et al.), 198 (1970) 353
- Proline hydroxylase
Isolation and partial characterization of
highly purified protocollagen — (Halme
et al.), 198 (1970) 460
- Proline imino peptidase
Application of a rapid colourimetric assay to
detect alterations in rat — (Cutroneo,
Fuller), 198 (1970) 271
- Proteinase
Purification and characterization of a —
in the venom of *Trimeresurus flavoviridis*:
Complete separation of the enzyme from
haemorrhagic activity (Takahashi, Ohsaka),
198 (1970) 293
- Proteinase
Specificity of alkaline — of *Aspergillus*
flavus (Turková, Mikeš), 198 (1970) 386
- Protocollagen proline hydroxylase
Isolation and partial characterization of
highly purified — (Halme et al.), 198
(1970) 460
- Purine nucleotides
Regulation of the biosynthesis of — in
Schizosaccharomyces pombe. I. Properties
of the phosphoribosylpyrophosphate glu-
tamine amidotransferase of the wild strain
and of a mutant desensitized towards feed-
back modifiers (Nagy), 198 (1970) 471
- Pyridoxal 5'-phosphate
Modification of D-amino-acid oxidase apo-
enzyme by — (Miyake, Yamano), 198
(1970) 438
- Pyrophosphate-glucose phosphotransferase
Liver microsomal inorganic — and glu-
cose-6-phosphatase. Effects of diabetes and
insulin administration on kinetic para-
meters (Hanson, Nordlie), 198 (1970) 66
- Ribonuclease A
Kinetic properties of iodinated — (Ham-
mes, Walz Jr.), 198 (1970) 604
- Ribonuclease W₁
Studies on the inactivation of whale pan-
creatic — with iodoacetate (Terao et al.),
198 (1970) 45
- Sarin
Inhibition of thrombin by — (Thomp-
son), 198 (1970) 392
- Single living cells
Enzyme-substrate kinetics associated with
transient state condition in — (Kohen
et al.), 198 (1970) 1
- Sodium-potassium-ATPase
Effect of hydroxylamine, mercaptans, diva-
lent metals and chelators on —. A possible
control mechanism (Bader et al.), 198 (1970)

- 583
Sodium + potassium-ATPase
Stability and ligand sensitivity of [^3H]-ouabain binding to — (Tobin, Sen), 198 (1970) 120
Sodium, potassium-requiring ATPase
—, V. Preparation and assay of a solubilized Na^+ -stimulated ADP-ATP exchange activity (Rendi), 198 (1970) 113
Succinate dehydrogenase
Studies on —. VI. Inhibition by monocarboxylic acids (Zeylemaker et al.), 198 (1970) 415
Succinate oxidase system
Metabolism and enzymology of fluorosuccinic acids. I. Interactions with the — (Brodie, Nicholls), 198 (1970) 423
Sulphatase
— of ox liver. XIII. The action of carbonyl reagents on sulphatase A (Roy), 198 (1970) 76
Sulphatases
Properties and sub-cellular distribution of two — which degrade adenosine 5'-phosphosulphate (Armstrong et al.), 198 (1970) 523
Teichoic acid
Problems in purification of a *Bacillus subtilis* autolytic enzyme caused by association with — (Brown et al.), 198 (1970) 308
Thrombin
Inhibition of — by sarin (Thompson), 198 (1970) 392
Transfer RNA synthetase
Aspects of the kinetic properties of lysyl — from *Escherichia coli*, Strain B (Marshall, Zamecnik), 198 (1970) 376
Trehalose phosphorylase
— from *Euglena gracilis* (Belocopitow, Maréchal), 198 (1970) 151
Tributyrylase
Substrate specificity and inhibition characteristics of a fluoride-sensitive — (Crum et al.), 198 (1970) 229
Tyrosine hydroxylase
Partial separation and properties of — from the human pheochromocytoma. Effect of norepinephrine (Nagatsu et al.), 198 (1970) 210
Ureidoglycolate
Hydrolysis, racemization and absolute configuration of —, a substrate of allantoinase ('s-Gravenmade et al.), 198 (1970) 569
Uridinediphosphate-D-glucose 4'-epimerase
Intramolecular hydrogen transfer catalyzed by — from *Escherichia coli* (Glaser, Ward), 198 (1970) 613