

SUBJECT INDEX

- Acetylglucosaminidase
Exo- β -N- — from *Bacillus subtilis* B; characterization (Berkeley et al.) (309) 157
- Adenylate cyclase
Properties of — mucosal cells of the rabbit ileum and the effect of cholera toxin (Sharp et al.) (309) 339
- Adenyl cyclase
Subcellular distribution of — and phosphodiesterase in *Acanthamoeba palestinensis* (Chlapowski, Butcher) (309) 138
- Adenylosuccinate synthetase
Regulation of the biosynthesis of purine nucleotides in *Schizosaccharomyces pombe*. III. Kinetic studies of — (Nagy et al.) (309) 1
- Aldehyde dehydrogenase
Activity of K^+ -activated yeast — following rapid changes in cation environment (Springham, Betts) (309) 233
- Alkaline phosphatase
Activation and inhibition processes of — from bovine brain by metal ions (Mg^{2+} and Zn^{2+}) (Brunel, Cathala) (309) 104
- o-Aminophenol
Differentiation of homologous forms of hepatic microsomal UDPglucuronyltransferase. I. Evidence for the — of o-aminophenol and p-nitrophenol by separate enzymes (Zakim et al.) (309) 67
- Angiotensin-converting enzyme
Substrate specificity of hog plasma — (Angus et al.) (309) 169
- Aspartate aminotransferase
Beef brain cytoplasmic —. Purification, kinetics, and physical properties (Krista, Fonda) (309) 83
- Aspartate carbamoyltransferase
Characterization of the — subunit obtained from a multienzyme aggregate in the pyrimidine pathway of yeast: activity and physical properties (Aitken et al.) (309) 50
- Aspergillus oryzae*
Isolation of alkaline proteinases from — by one step affinity chromatography on ovoinhibitor-Sepharose column (Feinstein, Gertler) (309) 196
- Bilirubin
Differentiation of homologous forms of hepatic microsomal UDPglucuronyltransferase. II. Characterization of the — conjugating form (Vessey et al.) (309) 75
- 2-Bromomethyl-3,1-benzoxazin-4-one
Inactivation of α -chymotrypsin by a bifunctional reagent, — (Alazard et al.) (309) 379
- Cholera toxin
Properties of adenylate cyclase in mucosal cells of the rabbit ileum and the effect of — (Sharp et al.) (309) 339
- Chorismate mutase
Evidence for three isozymes of — in alfalfa (Woodin, Nishioka) (309) 211
- Chorismate mutase isozyme patterns — in three fungi (Woodin and Nishioka) (309) 224
- α -Chymotrypsin
Inactivation of — by a bifunctional reagent, 2-bromomethyl-3,1-benzoxazin-4-one (Alazard et al.) (309) 379
- Citrate synthase
Kinetic studies on — from pig heart (Johansson et al.) (309) 466
- Clostridium pasteurianum*
Binding of ATP and ADP by nitrogenase components from — (Tso, Burris) (309) 263
- Collagenase
— activity in homogenates of the involuting rat uterus (Woessner, Jr, Ryan) (309) 397
- Corticosteroid
— dependent cycloheximide-evoked- increase of sucrase and maltase in the jejunum of suckling rats (Koldovský et al.) (309) 370
- β -Cyclopiazonate oxidocyclase
— from *Penicillium cyclopium*. III. Preliminary studies on the mechanism of action (Steenkamp et al.) (309) 440
- Dextranase
Studies on —. Purification of dextranase from *Penicillium funiculosum* and its enzymatic properties (Sugiura et al.) (309) 357
- Elastase-serum protein interaction
Studies on the —. III. The elastase inhibitors of swine serum with emphasis on the elastase- α_2 -macroglobulin interaction (Baumstark) (309) 181
- Elastolytic activity
Studies on a human blood platelet protease with — (Legrand et al.) (309) 406
- Enterokinase
On the distribution of — in porcine intestine and on its subcellular localization (Louvard et al.) (309) 127
- Esterase
Effect of kinetic parameters and inhibitors on intestinal — (Malhotra et al.) (309) 97
- α -Glucan phosphorylase
Allosteric — from banana fruits (Singh, Sanwal) (309) 280
- Glucose-6-phosphatase
Effects of sulphhydryl reagents on synthetic

- and hydrolytic activities of multifunctional — (Colilla, Nordlie) (309) 328
- Glucose-6-phosphatase
— activity in a soluble fraction from cotyledon tissue of *Brassica nigra* (Lau, Lygre) (309) 318
- Glucuronidation
Differentiation of homologous forms of hepatic microsomal UDPglucuronyltransferase. I. Evidence for the — of o-aminophenol and p-nitrophenol by separate enzymes. (Zakim et al.) (309) 67
- Glutamate dehydrogenase
Conformational transition of the oligomer of — induced by half-saturation with NAD^+ or NADP^+ (Bell, Dalziel) (309) 237
- Guanyl cyclase
Second messenger system of mouse epidermis. III. — (Marks) (309) 349
- Hexose oxidase
Purification and characterization of — from the red alga *Chondrus crispus* (Sullivan, Jr, Ikawa) (309) 11
- 7 α -Hydroxysteroid dehydrogenase
— from *Escherichia coli* B: preliminary studies (Macdonald et al.) (309) 243
- β -Lactamases
Purification of — on QAE-sephadex (Ross, Boulton) (309) 430
- Lipoamide dehydrogenase
Purification of — by affinity chromatography on propylipoamide-glass columns (Scouten et al.) (309) 521
- α_2 -Macroglobulin
Studies on the elastase-serum protein interaction. III. The elastase inhibitors of swine serum with emphasis on the elastase — interaction (Baumstark) (309) 181
- Malonyl-CoA decarboxylase
Liver — (Scholte) (309) 457
- Maltase
Corticosteroid-dependent cycloheximide-evoked increase of sucrase and — in the jejunum of suckling rats (Koldovský et al.) (309) 370
- D-Mannonate hydrolase
Purification and properties of — from *Escherichia coli* (Robert-Baudony, Stoeber) (309) 473
- Messenger system
Second — of mouse epidermis. III. Guanyl cyclase (Marks) (309) 349
- NAD^+
Conformational transition of the oligomer of glutamate dehydrogenase induced by halfsaturation with — (Bell, Dalziel) (309) 237
- NADP^+
Conformational transition of the oligomer of glutamate dehydrogenase induced by halfsaturation with NAD^+ or — (Bell, Dalziel) (309) 237
- Nitrate reductase
Reversible inactivation of the — of *Chlorella vulgaris* Beijerinck (Solomonson et al.) (309) 32
- Nitrogenase
Binding of ATP and ADP by — components from *Clostridium pasteurianum* (Tso, Burris) (309) 263
- p-Nitrophenol
Differentiation of homologous forms of hepatic microsomal UDPglucuronyltransferase. I. Evidence for the glucuronidation of o-aminophenol and — by separate enzymes (Zakim et al.) (309) 67
- 5'-Nucleotidase
Micrococcus radiodurans — (Mitchel) (309) 116
- Oestrogens
In vitro studies on the inhibition of pig liver steroid Δ^4 -5 β -reductase activity by naturally occurring and synthetic — (Van Doorn, Clark) (309) 254
- Penicillium cyclopium*
 β -Cyclopiasonate oxidocyclase from —. III. Preliminary studies on the mechanism of action (Steenkamp et al.) (309) 440
- Phenylalanine hydroxylase
— activity in foetal hepatic organ culture (Tourian) (309) 44
- Phenylalanine hydroxylase
Studies on the stimulation of — activity by short-chain alcohols (Brase, Westfall) (309) 271
- Phosphatase
Activation and inhibition processes of alkaline — from bovine brain by metal ions (Mg^{2+} and Zn^{2+}) (Brunel, Cathala) (309) 104
- Phosphodiesterase
Subcellular distribution of adenyl cyclase and — in *Acanthamoeba palestinensis* (Chlapowski, Butcher) (309) 138
- Phosphoenolpyruvate carboxylase
Spontaneous development of cytosolic — in foetal rat liver cultures (Mandelli et al.) (309) 515
- Platelets
Studies with phosphodiesterase. III. Two forms of the enzyme from human blood — (Amer, Mayol) (309) 149
- Platelet protease
Studies on a human blood — with elastolytic activity (Legrand et al.) (309) 406
- Polygalacturonase
Two forms of — in tomatoes (Pressey, Avants) (309) 363
- Porphyrinogen carboxylase
Porphyrin biosynthesis. X. — from avian erythrocytes. Further properties (Garcia et al.) (309) 203
- Porphyrin biosynthesis
X. Porphyrinogen carboxylase from avian erythrocytes. Further properties (Garcia et al.) (309) 203
- Propylipoamide-glass
Purification of lipoamide dehydrogenase by

- affinity chromatography on — (Scouten et al.) (309) 521
- Protease
Studies on a human blood platelet — with elastolytic activity (Legrand et al.) (309) 406
- Proteinases
Isolation of alkaline — from *Aspergillus oryzae* by one step affinity chromatography on ovoinhibitor-Sepharose column (Feinstein, Gertler) (309) 196
- Proteinase
On the specificity of *Pseudomonas aeruginosa* alkaline — with synthetic peptides (Moriwaka et al.) (309) 414
- Purine nucleotides
Regulation of the biosynthesis of — in *Schizosaccharomyces pombe*. III. Kinetic studies of adenylosuccinate synthetase (Nagy et al.) (309) 1
- Pyrimidine pathway
Characterization of the aspartate carbamoyl-transferase subunit obtained from a multi-enzyme aggregate in the — of yeast: activity and physical properties (Aitken et al.) (309) 50
- Pyruvate kinase
Kinetic and molecular characteristics of allosteric — from muscle tissue of the sea mussel *Mytilus edulis* L. (Holwerda, de Zwaan) (309) 296
- Spermine
Effect of — on the reaction catalyzed by threonyl-tRNA synthetase from rat liver (Aoyama, Chaimovich) (309) 502
- Steroid Δ^4 -5 β -reductase
In vitro studies on the inhibition of pig liver — activity by naturally occurring and synthetic oestrogens (Van Doorn and Clark) (309) 254
- Sucrase
Corticosteroid-dependent cycloheximide-evoked increase of — and maltase in the jejunum of suckling rats (Koldovský et al.) (309) 370
- Threonyl-tRNA synthetase
Effect of spermine on the reaction catalyzed by — from rat liver (Aoyama, Chaimovich) (309) 502
- Trypsin
Active site titration method for immobilized — (Ford et al.) (309) 175
- Tryptophanase
Molecular size of the acting species of — (Whitt, DeMoss) (309) 486
- UDP-N-acetylglucosamine
Kinetic properties of microsomal UDP-glucuronyltransferase. Evidence for cooperative kinetics and activation by — (Vessey et al.) (309) 58
- UDPGlucose: flavonol 3-O-glucosyltransferase
— from cell suspension cultures of parsley (Sutter, Grisebach) (309) 289
- UDPGlucose pyrophosphorylase
Sugar nucleotide inhibition of — from calf liver (Hopper, Dickinson) (309) 307
- UDPGlucuronyltransferase
Differentiation of homologous forms of hepatic microsomal —. I. Evidence for the glucuronidation o-aminophenol and p-nitrophenol by separate enzymes (Zakim et al.) (309) 67
- UDPGlucuronyltransferase
Differentiation of homologous forms of hepatic microsomal —. II. Characterization of the bilirubin conjugating form (Vessey et al.) (309) 75
- UDPGlucuronyltransferase
Kinetic properties of microsomal —. Evidence for cooperative kinetics and activation by UDP-N-acetylglucosamine. (Vessey et al.) (309) 58
- Xanthine oxidase
— activity in rat brain (Markley et al.) (309) 23

ERRATUM

BIOCHIMICA ET BIOPHYSICA ACTA, Vol. 293 (1973)

p. 556, Eqn 9 should read as follows:

$$[I_i] = v_0 \tau_i \left(1 - \sum_{j=1}^i A_j e^{-t/\tau_j} \right) \quad i = 2, 3, \dots, n$$