SUBJECT INDEX

Acetylcholinesterase

: New evidence for an acetyl-enzyme intermediate (Lenz, Hein), 220 (1970) 617

N-Acetylglucosamine kinase

Studies on hog spleen ——. I. Purification and properties of N-acetylglucosamine kinase (Datta), 220 (1970) 51

Aconitate hydratase

. Some new observations with especial relation to its use as a test system for fluorocitrate, together with studies on the electrophoretic separation of components of the crude enzyme (Peters, Shorthouse), 220 (1970) 560

Active center

Acid phosphatase from rat liver, studies on the ---- (Igarashi et al.), 220 (1970) 85

Adenosine deaminase

Latent in mouse brain. II. Purification and properties of mitochondrial and supernatant adenosine deaminases (Mustafa, Tewari), 220 (1970) 326

Adenosine 5'-phosphosulphate sulphohydrolases

Purification and properties of two --from rat liver and their possible role in the degradation of 3'-phosphoadenosine 5'-phosphosulphate (Bailey-Wood et al.), 220 (1970) 284

S-Adenosylmethionine:catechol-O-methyl-transferase

Purification and characterization of human placenta ---- (Gugler et al.), 220 (1970) 10 Adenyl cyclase

Effects of cations and ouabain on thyroid — (Burke), 220 (1970) 30

Alcohol dehydrogenase

Particulate —— and aldehyde dehydrogenase from Candida tropicalis cultivated on hydrocarbons (Lebeault et al.), 220 (1970) 373

Alcohol dehydrogenase

Rat liver 5β -cholestane- 3α , 7α , 12α ,26-tetrol dehydrogenase as a liver — (Okuda, Takigawa), 220 (1970) 141

Aldehyde dehydrogenase

Particulate alcohol dehydrogenase and - — from Candida tropicalis cultivated on hydrocarbons (Lebeault et al.), 220 (1970) 373 Alkaline protease

Allosteric enzyme

Radiation effects on an —— with two catalytic activities. X-ray inactivation of the threonine-sensitive aspartokinase-homoserine dehydrogenase from Escherichia

coli (Dimarco et al.), 220 (1970) 1 Aminolaevulinate synthetase activity

Measurement of -- in normal mouse liver with [2-11C] glycine (Freshney, Paul), 220 (1970) 594

α-Amylase

Chemical modification of bacterial — - by monoiodoacetate (Ohnishi, Hatano), 220 (1970) 350

Arsenate

Aspartate aminotransferase

Mobility of the paramagnetic label bound by —— (Timofeev et al.), 220 (1970) 357

Asparate transcarbamoylase

Control of pyrimidine biosynthesis in mammalian tissues. III. Multiple forms of ——of mouse spleen (Inagaki, Tatibana), 220 (1970) 491

Aspartokinase-homoserine dehydrogenase
Radiation effects on an allosteric enzyme
with two catalytic activities. X-ray inactivation of the threonine-sensitive—
from Escherichia coli (Dimarco et al.), 220

(1970) 1 ATP-sulphurylase

— - in spinach leaves (Balharry, Nicholas), 220 (1970) 513

Candida tropicalis

Oxidation of long-chain alcohols in cultivated on hydrocarbons (Lebeault et al.), 220 (1970) 386

Candida tropicalis

Particulate alcohol dehydrogenase and aldehyde dehydrogenase from —— cultivated on hydrocarbons (Lebeault et al.), 220 (1970) 373

Carbamoyl phosphate synthetase

Control of pyrimidine biosynthesis in mammalian tissues. II. Glutamine-utilizing — of various experimental tumors: Distribution, purification and characterization (Ito et al.) 220 (1970) 477

Carbamyl phosphate synthetase

Sulphydryl inhibitors and enzyme-substrate interactions of —— (Novoa, Grisolia), 220 (1970) 503

Carbonic anhydrases B and C

Effects of phosphate, HEPES, N₂O and CO CO on the kinetics of human erythrocyte — (Christiansen, Magid), 220 (1970) 630

Catalase

Heterogeneity of —— in rat liver and experimental hepatomas of rats and mice (Davidova et al.), 220 (1970) 206

644 SUBJECT INDEX

Catechol-O-methyltransferase

Kinetics of purified (Flohe, Schwabe), 220 (1970) 469

Chloramphenicol-O-acetyltransferase

Inhibition of by adenine nucleotides (Garber, Zipser), 220 (1970) 3.41

 5β -Cholestane-3a,7a,12a,26-tetrol dehydrogenase

Rat liver — as a liver alcohol dehydrogenase (Okuda, Takigawa), 220 (1970) 141 Chromatography

of a halophilic enzyme on hydroxylapatite in 3.4 M sodium chloride (Norberg, v. Hofsten), 220 (1970) 132

Chymotrypsin

Decreased reactivity of organophosphorus inhibitors towards a modified (Thompson, Ellin), 220 (1970) tot

Cytochrome c peroxidase

Isolation of a from Thiobacillus novellus (Yamanaka, Okunuki), 220 (1970) 354

Dipicolinic acid

Effect of — on bacterial cyclic 3',5'-nucleotide phosphodiesterase (Okabayashi, Ide), 220 (1970) 124

Disulphide reductase

Disulphide reduction in rat liver, II, Chromatographic separation of nucleotide-dependent—and GSH-disulphide transhydrogenase activities of the high-speed supernatant fraction (Tietze), 220 (1970) 449

Elastase

Isolation and partial characterization of an ... -associated acidic endopeptidase and its interaction with clastase at low ionic strength (Baumstark). 220 (1970) 534

Endopeptidase

Isolation and partial characterization of an elastase-associated acidic—and its interaction with elastase at low ionic strength (Baumstark), 220 (1970) 534

Enzyme antienzyme reactions

Kinetic treatments of (Khoo, Russell), 220 (1970) 239

GSH-disulphide transhydrogenase

Disulphide reduction in rat liver. II. Chromatographic separation of nucleotidependent disulphide reductase and activities of the high-speed supernatant fraction (Tietze), 220 (1970) 449

Glucose oxidase reaction

Nuclear magnetic resonance study of the (Feather), 220 (1970) 127

Glucose phosphate isomerase activity

Kinetics of on fructose in the presence of arsenate. Reactivity of alcoholic groups with arsenate (Lagunas), 220 (1970) 108 β-Glucuronidase

The purification of lysosomal rat-liver (Delvin, Gianetto), 220 (1970) 93

Glyceraldehyde-3-phosphate dehydrogenase Properties of muscle — from the coldadapted antarctic fish Dissostichus mawsoni (Greene, Feeney), 220 (1970) 430 р Glyceraldehyde-3-phosphate dehydrogenase

in photosynthetic cells. I. The reversible light-induced activation in vivo of NADP-dependent enzyme and its relationship to NAD-dependent activities (Melandri et al.), 220 (1970) 178

Halophilic enzyme

Chromatography of a — on hydroxyl-apatite in 3.4 M sodium chloride (Norberg, v. Hofsten), 220 (1970) 132

Historie deacetylase

from calf thymus (Inoue, Fujimoto), 220 (1970) 307

Hydrocarbons

Oxidation of long-chain alcohols in Candida tropicalis cultivated on (Lebeault et al.), 220 (1970) 386

Hydrocarbons

Particulate alcohol dehydrogenase and aldehyde dehydrogenase from Candida tropicalls cultivated on (Lebeault et al.). 220 (1970) 373

Isocitrate (NADP^{*}) dehydrogenase

Characterization of the highly active of Azotobacter vinelandii (Barrera, Jurtshuk), 220 (1970) 416

Lecithin; cholesterol acvl transferase

activity in human cerebrospinal fluid (Illingworth, Glover), 220 (1970) 610

Long-chain alcohols

Oxidation of in Candida tropicalis cultivated hydrocarbons (Lebeault et al.), 220 (1970) 386

Lysosomal β -galactosidases

of rat kidney (Patel, Tappel), 220 (1970) 622

Lysozymes

Influence of pH and ionic strength on the lysis of Micrococcus lysodeikticus cells by six human and four avian (Saint-Blancard et al.), 220 (1070) 300

Malate dehydrogenase

Allosteric and multifunctional properties of Neurospora mitochondrial (Munkres), 220 (1970) 149

Malate dehydrogenases

Cytoplasmic and mitochondrial of Neurospora, Regulatory and enzymic properties (Benveniste, Munkres), 220 (1970) 161

Malate dehydrogenase

Some characteristics of the mitochondrial and soluble forms of a in lemon fruits (Abou-Zamzam, Wallace). 220 (1970) 396

Malate dehydrogenase isoenzymes

Variant in mitochondrial populations (Grimwood, McDaniel), 220 (1970) 410

Metabolic compartmentation

at the molecular level: The function of a multienzyme aggregate in the pyrimidine pathway of yeast (Luc, Kaplan), 220 (1970) 305

Metapyrocatechase

III. Substrate specificity and mode of ring fission (Nozaki et al.), 220 (1970) 213

Mitochondrial malate dehydrogenase

Allosteric and multifunctional properties of Neurospora —— (Munkres), 220 (1970) 149

Mitochondrial malate dehydrogenases

Cytoplasmic and of Neurospora. Regulatory and enzymic properties (Benveniste, Munkres), 220 (1970) 161

Mitochondrial populations

Variant malate dehydrogenase isoenzymes (Grimwood, McDaniel), 220 (1970) 410

NAD glycohydrolase

Kinetic properties of bull semen - (Zervos et al.), 220 (1970) 636

NADH dehydrogenase

Electron paramagnetic resonance studies of ⁹⁵Mo-enriched — isolated from iron-deficient Azotobacter vinelandii (DerVartanian, Bramlett), 220 (1970) 443

NADPH-linked reductase activities

Immunochemical studies on the interrelationships between sulphite reductase and other --- of Escherichia coli and Salmonella typhimurium (Gilboa-Garber, Mager), 220 (1970) 602

Nuclear magnetic resonance study

of the glucose oxidase reaction (Feather), 220 (1970) 127

Nuclease activity

Extracellular - of Micrococcus sodonensis. III. Kinetic studies and control of production (Berry, Campbell), 220 (1970) 256

Nuclease activity

Extracellular ---- of Micrococcus sodonensis. IV. Physical studies, characterization as a glycoprotein and involvement with the cell wall (Berry et al.), 220 (1970) 269

5'-Nucleotidase

Anion-activated --- in cell envelopes of a slightly halophilic Vibrio alginolyticus (Havashi et al.), 220 (1970) 244

3',5'-Nucleotide phosphodiesterase

of Serratia marcescens (Oka-Cyclic bayashi, Ide), 220 (1970) 116

3',5'-Nucleotide phosphodiesterase

Effect of dipicolinic acid on bacterial cyclic -- -- (Okabayashi, Ide), 220 (1970) 124

Organophosphorus inhibitors

Decreased reactivity of towards a modified chymotrypsin (Thompson, Ellin), 220 (1970) 101

Ornithine aminotransferase

Properties of —— from rat liver, kidney and small intestine (Sanada et al.), 220 (1970) 42

2,3-Oxidosqualene lanosterol cyclase

Comparative properties of from yeast and liver (Shechter et al.), 220 (1970) 463

Penicillinase

Particular conformational change of Bacillus cereus — under the action of a new penicillin analogue pyrazocillin (Csányi et al.), 220 (1970) 317

Peroxidase

Electron spin resonance on intermediates in

the catalytic reaction of at low temperature (Douzou, Leterrier), 220 (1970) 338

Porphobilinogen deaminase

Porphyrin biosynthesis in soybean callus. V. The uroporphyrinogen cosynthetase system. Kinetic studies (Llambías, Batlle), 220 (1970) 552

Phosphatase

Acid -from rat liver, studies on the active center (Igarashi et al.), 220 (1970) 85 3'-Phosphoadenosine 5'-phosphosulphate

Purification and properties of two adenosine 5'-phosphosulphate sulphohydrolases from rat liver and their possible role in the degradation of -(Bailey-Wood et al.), 220 (1970) 284

3'-Phosphoadenylylsulphate:steroid transferase

Purification and characterization of a from human liver (Gugler et al.), 220 (1970)

Phosphopyruvate carboxylase

from Entamoeba histolytica (Reeves), 220 (1970) 346

Phosphorylase activity

Requirement of divalent cation for human platelet (Karpatkin et al.), 220 (1970) 22

Phosphotransacetylase

 of Lactobacillus fermenti, properties of the enzyme and determination of coenzyme A (Nojiri et al.), 220 (1970) 606

Porphyrin biosynthesis

··· in sovbean callus. V. The porphobilinogen deaminase uroporphyrinogen cosynthetase system. Kinetic studies (Llambías, Batlle), 220 (1970) 552 Proteolytic enzymes

Cell-bound of Arthrobacter (Bjare et al.), 220 (1970) 134

Protocatechuate 4.5-dioxygenase

Purification and some properties of - -(Ono et al.), 220 (1970) 224

Pyrazocillin

Particular conformational change of Bacillus cereus penicillinase under the action of a new penicillin analogue - - (Csányi et al.), 220 (1970) 317

Pyrimidine biosynthesis

in mammalian tissues. II. Glutamine-utilizing carbamoyl phosphate synthetase of various experimental tumors: Distribution, purification and characterization (Ito et al.), 220 (1970) 477

Pyrimidine biosynthesis

Control of in mammalian tissues. 111. Multiple forms of asparate transcarbamovlase of mouse spleen (Inagaki, Tatibana), 220 (1970) 491

Pyrimidine pathway

Metabolic compartmentation at the molecular level: The function of a multienzyme aggregate in the -- of yeast (Lue, Kaplan), 220 (1970) 365

Pyruvate kinase

646 SUBJECT INDEX

Some properties of abnormal red blood cell — (Staal et al.), 220 (1970) 613

Radiation effects

- - on an allosteric enzyme with two catalytic activities. X-ray inactivation of the threonine-sensitive aspartokinase-homoscrine dehydrogenase from Escherichia coli (Dimarco et al.), 220 (1970) I

Rennin

Reactivation of ---- inhibited by dansyl chloride (Rickert), 220 (1970) 628

Sulphite reductase

Immunochemical studies on the interrelationships between — and other NADPH-linked reductase activities of Escherichia coli and Salmonella typhimurium (Gilboa-Garber and Mager), 220 (1970) 602

Sulphite reductase

Studies on yeast . III. Further characterization (Yoshimoto, Sato), 220 (1970) 190 [hiolase]

Purification and some properties of -from Escherichia coli (Mazzei et al.), 220 (1970) 129

Transglucuronidation

Assay of UDPGlcUA pyrophosphatase and

its relation to --- (Wong, Lau), 220 (1970) 61 Triglyceride esterase activity

of human adipose tissue (Boyer, Giudicelli), 220 (1970) 525

Trypsin

Preparation of — chemically attached to nylon tubes (Hornby, Filippusson), 220 (1970) 343

Tryptophan synthetases

Similarity of -- - of Anabaena variabilis and Chlorella ellipsoidea with that of bacteria (Sakaguchi), 220 (1970) 580

UDPase

Isolation and characterization of a from cerebellum (Bosmann), 220 (1970) 500 UDPGlcUA pyrophosphatase

Assay of - and its relation to transglucuronidation (Wong, Lau), 220 (1970) 61

Uridine diphosphoglucose 4-epimerase

-: Kinetic isotope effect (Nelsestuen, Kirkwood), 220 (1970) 633

Uroporphyrinogen cosynthetase

Porphyrin biosynthesis in soybean callus. V. The porphobilinogen deaminase—system. Kinetic studies (Llambías, Batlle), 220 (1970) 552