

## SUBJECT INDEX

- Acetyl coenzyme A  
Kinetic studies of — activated phosphoenolpyruvate carboxylase; reverse effects with a fatty acid (Silverstein) (258) 626
- Acid carboxypeptidase  
Purification and characterization of a new type of — from *Aspergillus* (Ichishima) (258) 275
- Acid phosphatase  
Actions of hydroxymethylhydroperoxide and bis(hydroxymethyl)peroxide on fumarate hydratase lactate dehydrogenase, aspartate aminotransferase, glucose oxidase, and — (Marklund) (258) 9
- Active center  
Studies of the — of rat liver homoserine dehydratase (Deme, Chatagner) (258) 643
- Active site  
Stereochemistry of the — of  $\alpha$ -chymotrypsin. The effect of some tricyclic bromomethyl ketones on  $\alpha$ -chymotrypsin (Pattabiraman, Lawson) (258) 548
- Active sites  
Studies on the relationship between the — of chorismate mutase-prephenate dehydrogenase from *Escherichia coli* or *Aerobacter aerogenes* (Koch et al.) (258) 719
- Adenylate kinase.  
Purification of rat liver — isozyme II and comparison with isozyme III (Sapico et al.) (258) 436
- Aggregation  
Effects of ATP and photooxidation on the — of microsomal glucokinase of rat liver (Berthillier, Got) (258) 88
- Alkaline phosphatase  
Diversity of — from rat intestine. Isolation and purification of the enzyme(s) (Saini, Done) (258) 147
- Alkaline phosphatase  
The subunit composition of *Escherichia coli* — in 1 M Tris (Snyder et al.) (258) 178
- Alkaline phosphatase  
Effect of EDTA on *Escherichia coli* — (Csopak et al.) (258) 466
- Alkaline phosphatases  
— of the chicken duodenum. I. Isolation and partial characterization of the multiple forms of duodenal phosphatase in pre- and post-hatching stages (Chang, Moog) (258) 154
- Alkaline phosphatases  
— of the chicken duodenum. II. Enzymic dissociation of a large phosphatase complex predominant in the duodenum before hatching (Chang, Moog) (258) 166
- Amidohydrolase  
Purification and properties of 4-L-aspartylglycosylamine — from hog kidney (Kohn, Yamashina) (258) 600
- AMP deaminase  
— from rabbit skeletal muscle: The effect of monovalent cations on catalytic activity and molecular weight (Ashman, Atwell) (258) 618
- AMP deaminase  
Multiple forms of — in rat brain (Ogasawara et al.) (258) 680
- Anions  
Multiple effects of — on ATP: L-arginine phosphotransferases (Thiem et al.) (258) 422
- L-Arginine phosphotransferases  
Multiple effects of anions on ATP: — (Thiem et al.) (258) 422
- Arvin  
Observations concerning the substrate specificity of — (Exner, Koppel) (258) 825
- Aspartate aminotransferase  
Actions of hydroxymethylhydroperoxide and bis(hydroxymethyl)peroxide on fumarate hydratase, lactate dehydrogenase, — (258) 9
- Aspartylglycosylamine amidohydrolase  
Purification and properties of 4-L- — from hog kidney (Kohn, Yamashina) (258) 600
- ATP  
Effects of — and photooxidation on the aggregation of microsomal glucokinase of rat liver (Berthillier, Got) (25) 88
- ATP  
Multiple effects of anions on —: L-arginine phosphotransferases (Thiem et al.) (258) 422
- ATP-sulphurylase  
Purification and properties of — from Furth mouse mastocytoma (Shoyab, et al.) (258) 113
- ATP-sulphurylase  
Enzyme-substrate complexes of — from mouse mastocytoma (Shoyab, Marx) (258) 125
- Blood platelets  
Action of collagen on an inorganic pyrophosphatase in — (Abdulla, McFarlane) (258) 337
- Bowman-Birk  
Identification of the chymotrypsin-reactive site of the — soybean inhibitor (Seidl, Liener) (258) 303
- Brain  
Assay of — particulate neuraminidase. III. Preparation of the enzyme devoid of endogenous substrates (Tettamanti et al.) (258) 228
- Brain phosphatase kinase  
Calf —. Purification of the kinase associated with a phosphate-incorporating pro-

- tein (Wålinder) (258) 411
- Bromo-3-ketosteroid derivatives  
Inhibition of the 3-ketosteroid  $\Delta^5 \rightarrow 4$  isomer-  
ase of *Pseudomonas testosteroni* by some  
— (Jones, Ship) (258) 800
- Carbonic anhydrase  
Intracellular distribution of — in spinach  
leaves (Poincelot) (258) 637
- Carboxamidomethylated subunits  
The preparation and properties of  $^{14}\text{C}$  —  
from A<sub>2</sub>/1957 influenza neuraminidase (Ken-  
dal, Eckert) (258) 484
- Carboxypeptidase  
Purification and characterization of new  
type of acid — from *Aspergillus* (*Ichis-  
hima*) (258) 274
- Cerebroside sulphatase  
— determination in cultured human fibro-  
blasts (Porter et al.) (258) 769
- Chorismate mutase-prephenate dehydrogenase  
Studies on the relationship between the  
active sites of — from *Escherichia coli*  
or *Aerobacter aerogenes* (Koch et al.) (258)  
719
- $\alpha$ -Chymotrypsin  
Stereochemistry of the active site of —.  
The effect of some tricyclic bromomethyl  
ketones on  $\alpha$ -chymotrypsin (Pattabiraman,  
Lawson) (258) 548
- Chymotrypsin-reactive site  
Identification of the — of the Bowman-  
Birk soybean inhibitor (Seidl, Liener) (258)  
303
- Collagen  
Action of — on an inorganic pyrophos-  
phatase in blood platelets (Abdulla, McFar-  
lane) (258) 337
- Collagenase  
Characterization of a — from rat skin  
(Tokoro et al.) (258) 289
- Collagen lysine hydroxylase  
Partial purification and properties of —  
from chick embryos (Popenoe, Aronsen)  
(258) 380
- Cytochrome  $\text{cc}'_3$   
Regulation of the reduction of sulphite and  
thiosulphate by ferredoxin, flavodoxin and  
— in extracts of the *Desulphovibrio gigas*  
(Hatchikian et al.) (258) 701
- Developmental genetics  
Heterogeneity, molecular weight interre-  
lationships and — of the esterase isoen-  
zymes of the rainbow trout (Kingsbury,  
Masters) (258) 455
- EDTA  
Effects of — on *Escherichia coli* alkaline  
phosphatase (Csopak et al.) (258) 466
- Endopeptidase  
— from rheumatoid synovial tissue cul-  
ture (Harris Jr, Krane) (258) 566
- Enzyme mechanism  
Simple method for the derivation of the  
steady-state rate equation for an — (Orsi)  
(258) 4
- Enzyme-substrate complexes  
— of ATP-sulphurylase from mouse mas-  
tocytoma (Shoyab, Marx) (258) 125
- Esterase  
On the substrate activation of liver —  
(Hofstee) (258) 446
- Esterase isoenzymes  
Heterogeneity, molecular weight interrela-  
tionships and developmental genetics of  
the — of the rainbow trout (Kingsbury,  
Masters) (258) 455
- Exo- $\beta$ -(1 $\rightarrow$ 3)-D-glucanase  
The study on the action of an — (Boch-  
kov et al.) (258) 531
- Exo-splitting- $\alpha$ -1,3 glucanase  
A new type of enzyme, an — from non-  
induced cultures of *Aspergillus nidulans*  
(Zonneveld) (258) 541
- Fatty acid  
Kinetic studies of acetyl coenzyme A acti-  
vated phosphoenolpyruvate carboxylase;  
reverse effects with a — (Silverstein)  
(258) 626
- Ferredoxin  
Regulation of the reduction of sulphite  
and thiosulphate by —, flavodoxin and  
cytochrome  $\text{cc}'_3$  in extracts of the sulphate  
reducer *Desulphovibrio gigas* (Hatchikian  
et al.) (258) 701
- Flavodoxin  
Regulation of the reduction of sulphite  
and thiosulphate by ferredoxin, — and  
cytochrome  $\text{cc}'_3$  in extracts of the *Desul-  
phovibrio gigas* (Hatchikian et al.) (258)  
701
- Flavonoids  
Purification and properties of an enzyme  
from cell suspension cultures of parsley  
catalyzing the transfer of D-glucose from  
UDP-D-glucose to — (Sutter et al.) (258)  
71
- Fumarate hydratase  
Actions of hydroxymethylhydroperoxide  
and bis(hydroxymethyl)peroxide on —  
lactate dehydrogenase, aspartate amino-  
transferase, glucose oxidase, and acid phos-  
phatase (Marklund) (258) 9
- $\beta$ -Galactosidases  
 $\beta$ -glucosidase (phlorizin hydrolase) activity  
of the lactase fraction isolated from the  
small intestinal mucosa of infant rats, and  
the relationship between  $\beta$ -glucosidases and  
— (Kraml et al.) (258) 520
- Glucanase  
New type of enzyme, an exo-splitting- $\alpha$ -  
1,3 — from non-induced cultures of *As-  
pergillus nidulans* (Zonneveld) (258) 541
- D-Glucanase  
Study on the action of an exo- $\beta$ -(1 $\rightarrow$ 3)- —  
(Bochkov et al.) (258) 531
- $\beta$ -1,3-Glucan glucanohydrolase  
Some aspects of specificity and action pat-  
tern of — from *Spisula sachalinensis*  
(Sova, Elyakova) (258) 219
- $\beta$ -1,3-Glucan hydrolase  
— from *Nicotiana glutinosa*. I. Extraction,  
purification and physical properties (Moore,  
Stone) (258) 238

- $\beta$ -1,3-Glucan hydrolase  
 — from *Nicotiana glutinosa*. II. Specificity, action pattern and inhibitor studies (Moore, Stone), (258) 248
- Glucoamylase  
 Preparation of lactase and — of rat small intestine (Schlegel-Haueter et al.) (258) 506
- Glucokinase  
 Effects of ATP and photooxidation on the aggregation of microsomal — of rat liver (Berthillier, Got) (258) 88
- D-Glucose  
 Purification and properties of an enzyme from cell suspension cultures of parsley catalyzing the transfer of — from UDP-D-glucose to flavonoids (Sutter et al.) (258) 71
- Glucose oxidase  
 Actions of hydroxymethylhydroperoxide and bis(hydroxymethyl)peroxide on fumarate hydratase, lactate dehydrogenase, aspartate aminotransferase, — and acid phosphatase (Marklund) (258) 9
- Glucose-6-phosphatase  
 Comparative studies of the responses of rat liver microsomal — and inorganic pyrophosphate-glucose phosphotransferase to phospholipase C treatment and phospholipid supplementation (Snoke, Nordlie) (258) 188
- $\alpha$ -Glucosidase  
 Purification and characterization of — from *Mucor rouxii* (Flores-Carreón, Ruíz-Herrera) (258) 496
- $\beta$ -Glucosidase  
 — (phlorizin hydrolase) activity of the lactase fraction isolated from the small intestinal mucosa of infant rats, and the relationship between  $\beta$ -glucosidases and  $\beta$ -galactosidases (Kraml et al.) (258) 520
- Glutamate dehydrogenase  
 Molecular interactions of six aromatic competitive inhibitors with bovine liver — (Rogers et al.) (258) 343
- Glutamate dehydrogenase  
 Solubility of toluene in bovine liver — solutions and enhancement of enzyme association (Reisler, Eisenberg) (258) 351
- Glutamate dehydrogenase  
 Unidirectional inhibition of — from *Blasotodiella emersonii* (Sanner) (258) 689
- Glycerol dehydrogenase  
 Purification and properties of an NADP<sup>+</sup>-dependent — from rabbit skeletal muscle (Kormann et al.) (258) 40
- Glycerol-3-phosphate dehydrogenase  
 —: A regulatory enzyme (Suarez, Apitz-Castro) (258) 339
- Glycosidases  
 Identification, purification and characteristics of — of human blood platelets (Bosmann) (258) 265
- Glycylprolyl  $\beta$ -naphthylamidase  
 Purification and properties of — in human submaxillary gland (Öya et al.) (258) 591
- Homoserine dehydratase  
 Studies of the active center of rat liver — (Deme, Chatagner) (258) 643
- Hydrocortisone induction  
 Tryptophan pyrrolase in the liver of guinea pig: The absence of — (Hvitfelt, Santti) (258) 358
- Hydroxylase  
 Substrate specificity of the — reaction in which thymidine is converted to thymine ribonucleoside (Shaffer et al.) (258) 387
- Hydroxymethylhydroperoxide  
 Actions of — and bis(hydroxymethyl)peroxide on fumarate hydratase, lactate dehydrogenase, aspartate aminotransferase, glucose oxidase, and acid phosphatase (Marklund) (258) 9
- bis(Hydroxymethyl)peroxide  
 Actions of hydroxymethylhydroperoxide and — on fumarate hydratase, lactate dehydrogenase, aspartate aminotransferase, glucose oxidase, and acid phosphatase (Marklund) (258) 9
- Inhibitor studies  
 $\beta$ -1,3-Glucan hydrolase from *Nicotiana glutinosa*. II. Specificity, action pattern and — (Moore, Stone) (258) 248
- Inorganic pyrophosphate-glucose phosphotransferase  
 Comparative studies of the responses of rat liver microsomal glucose-6-phosphatase and — to phospholipase C treatment and phospholipid supplementation (Snoke, Nordlie) (258) 188
- Isocitrate dehydrogenase  
 NADP<sup>+</sup>-specific — of *Escherichia coli*. I. Purification and characterization (Reeves et al.) (258) 27
- Isoenzymes  
 Heterogeneity, molecular weight interrelationships and developmental genetics of the esterase — of the rainbow trout (Kingsbury, Masters) (258) 455
- 3-Ketosteroid  $\Delta^5\text{-}\Delta^4$  isomerase  
 Inhibition of the — of *Pseudomonas testosteroni* by some bromo-3-keto steroid derivatives (Jones, Ship) (258) 800
- Kinase  
 Calf brain phosphokinase. Purification of the — associated with a phosphate-incorporating protein (Wälinder) (258) 411
- Kinetic characteristics  
 — of phosphofructokinase from *Lactobacillus casei* var. *rhamnosus* ATCC 7469 and *Lactobacillus plantarum* ATCC 14917 (Doelle) (258) 404
- Kinetic properties  
 — of phosphofructokinase of *Neurospora crassa* (Tsao, Madley) (258) 99
- Lactase  
 $\beta$ -glucosidase (phlorizin hydrolase) activity of the — fraction isolated from the small intestinal mucosa of infant rats, and the relationship between  $\beta$ -glucosidases and  $\beta$ -galactosidases (Kraml et al.) (258) 520

## Lactase

Preparation of — and glucoamylase of rat small intestine (Schlegel-Haueter et al.) (258) 506

## Lactate dehydrogenase

Actions of hydroxymethylhydroperoxide and bis(hydroxymethyl)peroxide on fumarate hydratase — aspartate aminotransferase, glucose oxidase, and acid phosphatase (Marklund) (258) 9

## Lactate dehydrogenase

Subunit cooperativity in the action of — (Saito) (258) 17

## Liver esterase

On the substrate activation of — (Hofstee) (258) 446

## Lysine hydroxylase

Partial purification and characterization of procollagen — from chick embryos (Kivirikko, Prockop) (258) 366

## Lysine hydroxylase

Partial purification and properties of collagen — from chick embryos (Popenoe, Aronson) (258) 380

## Lysyl-tRNA synthetase

— of *Escherichia coli* B: Formation and reactions of ATP-enzyme and lysyl-AMP-enzyme complexes (Hele, Barber) (258) 319

## Mercaptopyruvate sulphur transferase

Purification and properties of — of *Escherichia coli* (Vachek, Wood) (258) 133

## Microsomal

Comparative studies of the responses of rat liver — glucose 6-phosphatase and inorganic pyrophosphate-glucose phosphotransferase to phospholipase C treatment and phospholipid supplementation (Snoke, Nordlie) (258) 188

## Microsomal glucokinase

Effects of ATP and photooxidation on the aggregation of — of rat liver (Berthillier, Got) (258) 88

## Mitochondrial monoamine oxidase

— of rat liver: Reversible qualitative alterations in catalytic properties (Veryovkina et al.) (258) 56

## Molecular interactions

— of six aromatic competitive inhibitors with bovine liver glutamate dehydrogenase (Rogers et al.) (258) 343

## Monoamine oxidase

Mitochondrial — of rat liver: Reversible qualitative alterations in catalytic properties (Veryovkina et al.) (258) 56

## Monovalent cations

AMP deaminase from rabbit skeletal muscle: The effect of — on catalytic activity and molecular weight (Ashman, Atwell) (258) 618

## Multiple forms

Alkaline phosphatases of the chicken duodenum. I. Isolation and partial characterization of the — of duodenal phosphatase in pre- and post-hatching stages (Chang, Moog) (258) 154

## Multiple forms

— of AMP deaminase in rat brain (Ogasawara et al.) (258) 680

## Multiple Forms of Enzymes

Nomenclature of — Recommendations (1971) (IUPAC-IUB Commission on Biochemical Nomenclature) (258) 1

NADP<sup>+</sup>-dependent

Purification and properties of an — glycerol dehydrogenase from rabbit skeletal muscle (Kormann et al.) (258) 40

NADP<sup>+</sup>-specific isocitrate dehydrogenase

— of *Escherichia coli*. I. Purification and characterization (Reeves et al.) (258) 27

## Naphthylamidase

Purification and properties of glycylylprolyl  $\beta$  — in human submaxillary gland (Oya et al.) (258) 591

## Neuraminidase

Assay of brain particulate —. III. Preparation of the enzyme devoid of endogenous substrates (Tettamanti et al.) (258) 228

## Neuraminidase

Preparation and properties of <sup>14</sup>C-carboxamidomethylated subunits from A<sub>2</sub>/1957 influenza — (Kendal, Eckert) (258) 484

## Nomenclature

— of Multiple Forms of Enzymes Recommendations (1971) (IUPAC-IUB Commission on Biochemical Nomenclature) (258) 1

## Orotate

Activity and distribution of the enzymes of uridylate synthesis from — in animal tissues (Pavsch et al.) (258) 395

## Oxosteroid isomerases

Studies on  $\Delta^5 \rightarrow \Delta^4$ -3 —. III. Effect of solvent on the enzymatic proton transfer reaction (Weintraub et al.) (258) 655

## Papain

Effect of salts upon the pH dependence of the activity of — and succinyl-papain (Sluyterman, de Graaf) (258) 554

## pH dependence

Effect of salts upon the — of the activity of papain and succinyl-papain (Sluyterman, de Graaf) (258) 554

## Phenylmethanesulphonyl-subtilisin

Reactivation of — (Uemitsu et al.) (258) 562

## Phosphatase

Diversity of alkaline — from rat intestine. Isolation and purification of the enzyme(s) (Saini, Done) (258) 147

## Phosphatase

Effect of EDTA on *Escherichia coli* alkaline — (Csopak et al.) (258) 466

## Phosphatase complex

Alkaline phosphatases of the chicken duodenum. II. Enzymic dissociation of a large phosphatase complex predominant in the duodenum before hatching (Chang, Moog) (258) 166

## Phosphatase

Subunit composition of *Escherichia coli*

- alkaline — in 1 M Tris (Snyder et al.) (258) 178
- Phosphatases
- Alkaline — of the chicken duodenum. I. Isolation and partial characterization of the multiple forms of duodenal phosphatase in pre- and post-hatching stages (Chang, Moog) (258) 154
- Phosphate-incorporating protein.
- Calf brain phosphatase kinase. Purification of the kinase associated with a — (Wälinder) (258) 411
- Phosphodiesterase
- Isolation of — from sugar beet leaves (Lerch, Wolf) (258) 206
- Phosphoenolpyruvate carboxylase
- Kinetic studies of acetyl coenzyme A activated —; reverse effects with a fatty acid (Silverstein) (258) 626
- Phosphofructokinase
- Kinetic properties of — of *Neurospora crassa* (Tsao, Madley) (258) 99
- Phosphofructokinase
- Kinetic characteristics of — from *Lactobacillus casei* var. *rhymnosus* ATCC 7469 and *Lactobacillus plantarum* ATCC 14917 (Doelle) (258) 404
- Phosphofructokinase
- Studies on heart —. The effect of pyridoxal 5-phosphate on enzyme activity and dissociation (Setlow, Mansour) (258) 106
- Phospholipase C
- Comparative studies of the responses of rat liver microsomal glucose-6-phosphatase and inorganic pyrophosphate-glucose phosphotransferase to — treatment and phospholipid supplementation (Snoke, Nordlie) (258) 188
- Phospholipid
- Comparative studies of the responses of rat liver microsomal glucose-6-phosphatase and inorganic pyrophosphate-glucose phosphotransferase to phospholipase C treatment and — supplementation (Snoke, Nordlie) (258) 188
- Phosphatase kinase
- Calf brain —. Purification of the kinase associated with a phosphate-incorporating protein (Wälinder) (258) 411
- Photooxidation
- Effects of ATP and — on the aggregation of microsomal glucokinase of rat liver (Berthillier, Got) (258) 88
- Plasmin
- Differential specificities of thrombin, — and trypsin with regard to synthetic and natural substrates and inhibitors (Weinstein, Doolittle) (258) 577
- Platelets
- Action of collagen on an inorganic pyrophosphatase in blood — (Abdulla, McFarlane) (258) 337
- Platelets
- Identification, purification and characteristics of glycosidases of human blood — (Bosmann) (258) 265
- Prephenate dehydrogenase
- Studies on the relationship between the active sites of chorismate mutase — from *Escherichia coli* or *Aerobacter aerogenes* (Koch et al.) (258) 719
- Proline hydroxylase
- Protocollagen — in isolated rat liver cells (Ohuchi, Tsurufuji) (258) 731
- Protocollagen lysine hydroxylase
- Partial purification and characterization of — from chick embryos (Kivirikko, Prockop) (258) 366
- Protocollagen proline hydroxylase
- in isolated rat liver cells (Ohuchi, Tsurufuji) (258) 731
- Proton transfer reaction
- Studies on  $\Delta^5\text{-}^4\text{-}3\text{-oxosteroid}$  isomerases. III. Effect of solvent on the enzymatic — (Weintraub et al.) (258) 655
- Pyridine 1-oxide reductase
- Escherichia coli* — (Kester, Norton) (258) 709
- Pyridoxal 5'-phosphate
- Studies on heart phosphofructokinase. The effect of — on enzyme activity and dissociation (Setlow, Mansour) (258) 106
- Pyrophosphatase
- Action of collagen on an inorganic — in blood platelets (Abdulla, McFarlane) (258) 337
- Pyruvate kinase
- Influence of glucose 1,6-diphosphate on the enzymatic activity of — (Koster et al.) (258) 763
- Pyruvate kinase deficiency
- A new variant of red blood cell — (Staal et al.) (258) 685
- Reactivation
- of an unfolded subunit enzyme covalently linked to a solid surface (Cho, Swaisgood) (258) 675
- 7-(adenosine 5'-pyrophosphoryl)-D-Sedoheptulose
- The synthesis of — by an enzyme system from the green alga *Chlorella pyrenoidosa* (White, Barber) (258) 753
- Serine transhydroxymethylase
- Inactivation of — and threonine aldolase activities (Akhtar, El-Obeid) (258) 791
- Solid surface
- Reactivation of an unfolded subunit enzyme covalently linked to a — (Cho, Swaisgood) (258) 675
- Soybean inhibitor
- Identification of the chymotrypsin-reactive site of the Bowman-Birk — (Seidl, Liener) (258) 303
- Steady-state rate equation
- Simple method for the derivation of the — for an enzyme mechanism (Orsi) (258) 4
- Stereochemistry of the active site
- of  $\alpha$ -chymotrypsin. The effect of some tricyclic bromomethyl ketones on  $\alpha$ -chymotrypsin (Pattabiraman, Lawson) (258) 548
- Steroid sulphotase

- Gonadal steroid sulphates and sulphatase.  
V. Human testicular —: Partial characterization and possible regulation by free steroids (Payne) (258) 473
- Steroid sulphates  
Gonadal — and sulphatase. V. Human testicular steroid sulphatase: Partial characterization and possible regulation by free steroids (Payne) (258) 473
- Subtilisin  
The reactivation of phenylmethanesulphonyl— (Uemitsu et al.) (258) 562
- Substrate activation  
On the — of liver esterase (Hofstee) (258) 446
- Substrate specificity  
— of the hydroxylase reaction in which thymidine is converted to thymine ribonucleoside (Shaffer et al.) (258) 387
- Subunit composition  
— of *Escherichia coli* alkaline phosphatase in 1 M Tris (Snyder et al.) (258) 178
- Subunit cooperativity  
— in the action of lactate dehydrogenase (Saito) (258) 17
- Succinyl-papain  
Effects of salts upon the pH dependence of the activity of papain and — (Sluyterman, de Graaf) (258) 554
- Sulphatase  
Cerebroside — determination in cultured human fibroblasts (Porter et al.) (258) 769
- Sulphatase  
Gonadal steroid sulphates and sulphatase. V. Human testicular steroid —: Partial characterization and possible regulation by free steroids (Payne) (258) 473
- Sulphite  
Regulation of the reduction of — and thiosulphate by ferredoxin, flavodoxin and cytochrome  $cc'_3$  in extracts of the sulphate reducer *Desulphovibrio gigas* (Hatchikian et al.) (258) 701
- Sulphur transferase  
Purification and properties of mercaptopyruvate — of *Escherichia coli* (Vachek, Wood) (258) 133
- Sulphurylase  
Enzyme-substrate complexes of ATP— from mouse mastocytoma (Shoyab, Marx) (258) 125
- Sulphurylase  
Purification and properties of ATP— from Furth mouse mastocytoma (Shoyab et al.) (258) 113
- Synthesis of UDP-apiose and UDP-D-xylose  
Purification and properties of an enzyme from cell suspension cultures of parsley catalyzing the — from UDP-D-glucuronic acid (Baron et al.) (258) 310
- Thiamine  
Conversion of — to thiamine monophosphate by cell-free extracts of *Escherichia coli* (Iwashima et al.) (258) 333
- Thiamine monophosphate  
Conversion of thiamine to — by cell-free extracts of *Escherichia coli* (Iwashima et al.) (258) 333
- Thiosulphate  
Regulation of the reduction of sulphite and — by ferredoxin, flavodoxin and cytochrome  $cc'_3$  in extracts of the sulphate reducer *Desulphovibrio gigas* (Hatchikian et al.) (258) 701
- Threonine aldolase  
— from *Candida humicola*. II. Purification, crystallization and properties (Kumagai et al.) (258) 779
- Threonine aldolase  
Inactivation of serine transhydroxymethylase and — activities (Akhtar, El-Obeid) (258) 791
- Thrombin  
Differential specificities of —, plasmin and trypsin with regard to synthetic and natural substrates and inhibitors (Weinstein, Doolittle) (258) 577
- Thymidine  
Substrate specificity of the hydroxylase reaction in which — is converted to thymine ribonucleoside (Shaffer et al.) (258) 387
- Thymidylate synthase  
Purification and properties of — from calf thymus (Horinishi, Greenberg) (258) 741
- Thymine ribonucleoside  
Substrate specificity of the hydroxylase reaction in which thymidine is converted to — (Shaffer et al.) (258) 387
- Toluene  
Solubility of — in bovine liver glutamate dehydrogenase solutions and enhancement of enzyme association (Reisler, Eisenberg) (258) 351
- Transfer of D-glucose from UDP-D-glucose to flavonoids  
Purification and properties of an enzyme from cell suspension cultures of parsley catalyzing the — (Sutter et al.) (258) 71
- Tricyclic bromomethyl ketones  
Stereochemistry of the active site of  $\alpha$ -chymotrypsin. The effect of some — on  $\alpha$ -chymotrypsin (Pattabiraman, Lawson) (258) 548
- Trypsin  
Differential specificities of thrombin, plasmin and — with regard to synthetic and natural substrates and inhibitors (Weinstein, Doolittle) (258) 577
- Tryptophan pyrrolase  
— in the liver of guinea pig: The absence of hydrocortisone induction (Hvitfelt, Santti) (258) 358
- UDP-apiose  
Purification and properties of an enzyme from cell suspension cultures of parsley catalyzing the synthesis of — and UDP-D-xylose from UDP-D-glucuronic acid (Baron et al.) (258) 310
- UDP-D-glucose  
Purification and properties of an enzyme from cell suspension cultures of parsley

- catalyzing the transfer of D-glucose from  
—— to flavonoids (Sutter et al.) (258) 71
- UDP-D-glucuronic acid
- Purification and properties of an enzyme  
from cell suspension cultures of parsley  
catalyzing the synthesis of UDP-apirose  
and UDP-D-xylose from —— (Baron et al.)  
(258) 310
- UDP-D-xylose
- Purification and properties of an enzyme  
from cell suspension cultures of parsley  
catalyzing the synthesis of UDP-apirose  
and —— from UDP-D-glucuronic acid  
(Baron et al.) (258) 310
- Uridylate synthesis
- Activity and distribution of the enzymes of  
—— from orotate in animal tissues (Pausch  
et al.) (258) 395