

Subject Index

- β -D-Glucosidase**
n-Octyl β -D-glucoside synthesis through β -glucosidase catalyzed condensation of glucose and *n*-octanol in a heterogeneous system with high glucose concentration 165
- β -Keto sulfones**
Efficient kinetic resolution of 2-benzenesulfonylcyclopentanone derivatives 115
- β -Lactam antibiotic synthesis**
Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water–methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- β -Lactams**
Enzymatic synthesis of 2-amino-3-hydroxy-1,6-hexanedicarboxylic acid using serinehydroxymethyltransferase 161
- Arthrobacter* sp.**
Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase Use of recombinant enzymes 151
- Arthrobacter ureafaciens***
Regiospecific hydroxylation of 3-(methylaminomethyl)pyridine to 5-(methylaminomethyl)-2(1*H*)-pyridinone by *Arthrobacter ureafaciens* 173
- Helminthosporium* NRRL 4671**
Biotransformation of organic sulfides. Part 9. Formation of (*S*) *para*-substituted phenyl methyl sulfoxides by biotransformation using *Helminthosporium* species NRRL 4671 97
- Pseudomonas***
Oxidative biotransformations by microorganisms: production of chiral synthons by cyclopentanone monooxygenase from *Pseudomonas* sp. NCIMB 9872 127
- Rhodococcus rhodochrous***
Preparation of both enantiomers of methyl 3-benzoyloxy-pentanoate by enzyme-catalysed hydrolysis of corresponding racemic nitrile and amide 135
- Rhodococcus* sp. 409**
Prevalence of steric restrictions in enzymatic nitrile-hydrolysis of a preparation from *Rhodococcus* sp. 409 61
- Active-site model**
Prevalence of steric restrictions in enzymatic nitrile-hydrolysis of a preparation from *Rhodococcus* sp. 409 61
- Activity**
Study of fumarase activity in non-conventional media. Part II 89
Effect of a charged residue at the 213th site of thermolysin on the enzymatic activity 191
- Aldol reaction**
Enzymatic synthesis of 2-amino-3-hydroxy-1,6-hexanedicarboxylic acid using serinehydroxymethyltransferase 161
- Amidase**
Preparation of both enantiomers of methyl 3-benzoyloxy-pentanoate by enzyme-catalysed hydrolysis of corresponding racemic nitrile and amide 135
- Amides**
Lipase-catalysed ammoniolysis of lipids. A facile synthesis of fatty acid amides 109
- Amino acids**
Enzymatic synthesis of 2-amino-3-hydroxy-1,6-hexanedicarboxylic acid using serinehydroxymethyltransferase 161
- 5-(Aminomethyl)-2(1*H*)-pyridinone**
Regiospecific hydroxylation of 3-(methylaminomethyl)pyridine to 5-(methylaminomethyl)-2(1*H*)-pyridinone by *Arthrobacter ureafaciens* 173
- Ammoniolysis**
Lipase-catalysed ammoniolysis of lipids. A facile synthesis of fatty acid amides 109
- Ampicillin**
Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water–methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Asymmetric reduction**
Large-scale production of chiral alcohols with bakers' yeast 45
- Bakers' yeast**
Large-scale production of chiral alcohols with bakers' yeast 45
Efficient kinetic resolution of 2-benzenesulfonylcyclopentanone derivatives 115
- Biosurfactant**
n-Octyl β -D-glucoside synthesis through β -glucosidase catalyzed condensation of glucose and *n*-octanol in a heterogeneous system with high glucose concentration 165
- Biotransformation**
Biotransformation of organic sulfides. Part 9. Formation of (*S*) *para*-substituted phenyl methyl sulfoxides by biotransformation using *Helminthosporium* species NRRL 4671 97
- Chiral alcohol**
Large-scale production of chiral alcohols with bakers' yeast 45
- Chiral derivatives**
Efficient kinetic resolution of 2-benzenesulfonylcyclopentanone derivatives 115

- Coenzyme regeneration
 Large-scale production of chiral alcohols with bakers' yeast 45
- Cyclopentane derivatives
 Efficient kinetic resolution of 2-benzenesulfonylcyclopentanone derivatives 115
- Dehydrogenase
 Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase Use of recombinant enzymes 151
- Electrostatic potential
 Effect of a charged residue at the 213th site of thermolysin on the enzymatic activity 191
- Enantiotopic selectivity
 Biotransformation of organic sulfides. Part 9. Formation of (*S*) *para*-substituted phenyl methyl sulfoxides by biotransformation using *Helminthosporium* species NRRL 4671 97
- Enzymatic synthesis
 Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase Use of recombinant enzymes 151
- Fatty acid amides
 Lipase-catalysed ammoniolysis of lipids. A facile synthesis of fatty acid amides 109
- Formate dehydrogenase
 Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase Use of recombinant enzymes 151
- Fumarase
 Study of fumarase activity in non-conventional media. Part II 89
- Hydrolysis
 Zeolites as supports for enzymatic hydrolysis reactions. Comparative study of several zeolites 53
 Lamb pregastric enzyme-catalysed hydrolysis of 4-nitrophenylalkanoates and monoacid triglycerides 143
- Hydroxylation
 Regiospecific hydroxylation of 3-(methylaminomethyl)pyridine to 5-(methylaminomethyl)-2(1*H*)-pyridinone by *Arthrobacter ureafaciens* 173
- 3-Hydroxypentanoate derivatives
 Preparation of both enantiomers of methyl 3-benzoyloxypentanoate by enzyme-catalysed hydrolysis of corresponding racemic nitrile and amide 135
- Ionic strength
 Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
- Kinetically controlled synthesis
 Penicillin acylase-catalyzed synthesis of pivampicillin: Effect of reaction variables and organic cosolvents 71
- Kinetic resolution
 Efficient kinetic resolution of 2-benzenesulfonylcyclopentanone derivatives 115
 Preparation of both enantiomers of methyl 3-benzoyloxypentanoate by enzyme-catalysed hydrolysis of corresponding racemic nitrile and amide 135
- Lactones
 Oxidative biotransformations by microorganisms: production of chiral synthons by cyclopentanone monooxygenase from *Pseudomonas* sp. NCIMB 9872 127
- Lamb pregastric enzymes
 Lamb pregastric enzyme-catalysed hydrolysis of 4-nitrophenylalkanoates and monoacid triglycerides 143
- Lipase
 Zeolites as supports for enzymatic hydrolysis reactions. Comparative study of several zeolites 53
 Lipase-catalysed ammoniolysis of lipids. A facile synthesis of fatty acid amides 109
- Lipids
 Lipase-catalysed ammoniolysis of lipids. A facile synthesis of fatty acid amides 109
- Lipoic acid
 Oxidative biotransformations by microorganisms: production of chiral synthons by cyclopentanone monooxygenase from *Pseudomonas* sp. NCIMB 9872 127
- Low-water system
n-Octyl β -*D*-glucoside synthesis through β -glucosidase catalyzed condensation of glucose and *n*-octanol in a heterogeneous system with high glucose concentration 165
- Maleamides
 Protease induced novel ring contraction reaction of 1,3-oxazin-4-one derivatives¹ 103
- 5-(Methylaminomethyl)-2(1*H*)-pyridinone
 Regiospecific hydroxylation of 3-(methylaminomethyl)pyridine to 5-(methylaminomethyl)-2(1*H*)-pyridinone by *Arthrobacter ureafaciens* 173
- Monoacid triglycerides
 Lamb pregastric enzyme-catalysed hydrolysis of 4-nitrophenylalkanoates and monoacid triglycerides 143
- Nitrilase
 Prevalence of steric restrictions in enzymatic nitrile-hydrolysis of a preparation from *Rhodococcus* sp. 409 61
- Nitrile hydratase
 Preparation of both enantiomers of methyl 3-benzoyloxypentanoate by enzyme-catalysed hydrolysis of corresponding racemic nitrile and amide 135
- Nitrile hydrolysis
 Prevalence of steric restrictions in enzymatic nitrile-hydrolysis of a preparation from *Rhodococcus* sp. 409 61
- 4-Nitrophenylalkanoates
 Lamb pregastric enzyme-catalysed hydrolysis of 4-nitrophenylalkanoates and monoacid triglycerides 143
- Octyl glucoside
n-Octyl β -*D*-glucoside synthesis through β -glucosidase catalyzed condensation of glucose and *n*-octanol in a heterogeneous system with high glucose concentration 165
- Opine dehydrogenase
 Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase Use of recombinant enzymes 151
- Optimum pH
 Effect of a charged residue at the 213th site of thermolysin on the enzymatic activity 191
- Organic solvents
 Penicillin acylase-catalyzed synthesis of pivampicillin: Effect of reaction variables and organic cosolvents 71

- Study of fumarase activity in non-conventional media. Part II 89
- n*-Octyl β -*D*-glucoside synthesis through β -glucosidase catalyzed condensation of glucose and *n*-octanol in a heterogeneous system with high glucose concentration 165
- Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
- 1,3-oxazin-4-ones
- Protease induced novel ring contraction reaction of 1,3-oxazin-4-one derivatives¹ 103
- Oxidative resolution
- Large-scale production of chiral alcohols with bakers' yeast 45
- Penicillin acylase
- Penicillin acylase-catalyzed synthesis of pivampicillin: Effect of reaction variables and organic cosolvents 71
- Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
- Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water-methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Penicillin G
- Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water-methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Phenylalanine dehydrogenase
- Stereoselective synthesis of opine-type secondary amine carboxylic acids by a new enzyme opine dehydrogenase Use of recombinant enzymes 151
- pl
- Effect of a charged residue at the 213th site of thermolysin on the enzymatic activity 191
- Pivampicillin
- Penicillin acylase-catalyzed synthesis of pivampicillin: Effect of reaction variables and organic cosolvents 71
- Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
- Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water-methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Protease
- Protease induced novel ring contraction reaction of 1,3-oxazin-4-one derivatives¹ 103
- Pyridinone derivatives
- Regiospecific hydroxylation of 3-(methylaminomethyl)pyridine to 5-(methylaminomethyl)-2(1*H*)-pyridinone by *Arthrobacter ureafaciens* 173
- Reduction
- Efficient kinetic resolution of 2-benzenesulfonylcyclopentanone derivatives 115
- Ring contraction
- Protease induced novel ring contraction reaction of 1,3-oxazin-4-one derivatives¹ 103
- Serinehydroxymethyltransferase
- Enzymatic synthesis of 2-amino-3-hydroxy-1,6-hexanedicarboxylic acid using serinehydroxymethyltransferase 161
- Solvent effects on apparent *pK* values
- Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water-methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Solvent effects on reaction rates and yields
- Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water-methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Solvent hydrophobicity
- Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
- Sulphide
- Biotransformation of organic sulfides. Part 9. Formation of (*S*) *para*-substituted phenyl methyl sulfoxides by biotransformation using *Helminthosporium* species NRRL 4671 97
- Sulphoxidation
- Biotransformation of organic sulfides. Part 9. Formation of (*S*) *para*-substituted phenyl methyl sulfoxides by biotransformation using *Helminthosporium* species NRRL 4671 97
- Synthons
- Oxidative biotransformations by microorganisms: production of chiral synthons by cyclopentanone monooxygenase from *Pseudomonas* sp. NCIMB 9872 127
- Thermodynamic activity
- Effect of organic solvents on penicillin acylase-catalyzed reactions: interaction of organic solvents with enzymes 181
- Thermolysin
- Effect of a charged residue at the 213th site of thermolysin on the enzymatic activity 191
- Water-cosolvent mixtures
- Penicillin acylase-catalyzed synthesis of β -lactam antibiotics in water-methanol mixtures: effect of cosolvent content and chemical nature of substrate on reaction rates and yields 201
- Zeolites
- Zeolites as supports for enzymatic hydrolysis reactions. Comparative study of several zeolites 53