

Subject Index

- Acceptor reaction
Enzymatic synthesis and characterization of novel epigallocatechin gallate glucosides 1
- Adsorption
Direct immobilization of polyphenol oxidases on Celite 545 from ammonium sulphate fractionated proteins of potato (*Solanum tuberosum*) 58
- Alcaligenes* sp
Chemoenzymatic synthesis of (*S*)- and (*R*)- γ -cyclogeraniols 64
- Alcoholysis
Selective lipase-catalyzed preparation of diol monobenzoates by transesterification and alcoholysis reactions in organic solvents 81
- Alkaloids
Propionibacterium acnes GehA lipase, an enzyme involved in acne development, can be successfully inhibited by defined natural substances 132
Inhibition of *Candida rugosa* lipase by saponins, flavonoids and alkaloids 138
- Aspergillus carneus*
Statistical optimization of medium components and growth conditions by response surface methodology to enhance lipase production by *Aspergillus carneus* 121
- Bacillus* spp.
Characterization of 1,3-regiospecific lipases from new *Pseudomonas* and *Bacillus* isolates 127
- 1,4-Benzoxazines
Synthesis and lipase-catalyzed resolution studies on novel (\pm)-2-(2-oxoethyl)-4-arylmethyl-3-oxo-3,4-dihydro-2*H*-1,4-benzoxazine-6-carboxylates 101
- Benzoylation
Selective lipase-catalyzed preparation of diol monobenzoates by transesterification and alcoholysis reactions in organic solvents 81
- Biocatalysis
Highly efficient immobilization of endo-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition 16
Novel selective biocatalytic deacetylation studies on dihydropyrimidinones 93
Lipases: Useful biocatalysts for the preparation of pharmaceuticals 111
- Biocompatibility
Entrusting poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
- Biosensors
Biosensors for the evaluation of lipase activity 155
- Candida rugosa* lipase
Inhibition of *Candida rugosa* lipase by saponins, flavonoids and alkaloids 138
- Carbamate
Probing conformations of the glycerol backbones of triacylglycerols in the active site of lipase by 1,2-cyclopentane-carbamates: The *meso* effect for the enzyme inhibition 86
- Celite 545
Direct immobilization of polyphenol oxidases on Celite 545 from ammonium sulphate fractionated proteins of potato (*Solanum tuberosum*) 58
- Chemoenzymatic method
A convenient chemoenzymatic synthesis of (1*S*,7*aS*)-1-hydroxy-5-oxo-4-(2'-carboxyethyl)-7*a*-methyltetrahydro-indane—a key intermediate of steroids 38
- Conformation
Probing conformations of the glycerol backbones of triacylglycerols in the active site of lipase by 1,2-cyclopentane-carbamates: The *meso* effect for the enzyme inhibition 86
- Cyclopentanediol
Probing conformations of the glycerol backbones of triacylglycerols in the active site of lipase by 1,2-cyclopentane-carbamates: The *meso* effect for the enzyme inhibition 86
- γ -cyclogeraniol
Chemoenzymatic synthesis of (*S*)- and (*R*)- γ -cyclogeraniols 64
- β -D-glucopyranoside
Synthesis of naturally occurring β -D-glucopyranoside based on enzymatic β -glycosidation 8
- Dendritic cells
Serum pancreatic lipase [EC 3.1.1.3] activity, serum lipid profile and peripheral blood dendritic cell populations in normolipidemic males with psoriasis 144
- Desymmetrization
Lipases: Useful biocatalysts for the preparation of pharmaceuticals 111
- Determination
Biosensors for the evaluation of lipase activity 155
- Dialkylglycerol esters
Design of new chromogenic substrates for the spectrophotometric assay of polytopic activity of lipases 76
- Diols
Selective lipase-catalyzed preparation of diol monobenzoates by transesterification and alcoholysis reactions in organic solvents 81
- Dual-layer biomimetic support
Entrusting poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
- EGCG
Enzymatic synthesis and characterization of novel epigallocatechin gallate glucosides 1
- Enantioselective acetylation
Chemoenzymatic synthesis of (*S*)- and (*R*)- γ -cyclogeraniols 64
- Enantioselective deacetylation
Novel selective biocatalytic deacetylation studies on dihydropyrimidinones 93
- Enantioselectivity
The preparation of polymerizable, optically active non-steroidal anti-inflammatory drugs derivatives by irreversible enzymatic methods 51
- Enzymatic hydrolysis
A convenient chemoenzymatic synthesis of (1*S*,7*aS*)-1-hydroxy-5-oxo-4-(2'-carboxyethyl)-7*a*-methyltetrahydro-indane—a key intermediate of steroids 38
- Enzymatic resolution
Chemoenzymatic synthesis of (*S*)- and (*R*)- γ -cyclogeraniols 64
Lipases: Useful biocatalysts for the preparation of pharmaceuticals 111

- Enzyme immobilization
Entrusting poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
- Enzyme inhibitor
Probing conformations of the glycerol backbones of triacylglycerols in the active site of lipase by 1,2-cyclopentane-carbamates: The *meso* effect for the enzyme inhibition 86
- FCCCD
Statistical optimization of medium components and growth conditions by response surface methodology to enhance lipase production by *Aspergillus carneus* 121
- Flavonoids
Propionibacterium acnes GehA lipase, an enzyme involved in acne development, can be successfully inhibited by defined natural substances 132
Inhibition of *Candida rugosa* lipase by saponins, flavonoids and alkaloids 138
- (*S*)-Flurbiprofen
Enantioselective properties of extracellular lipase from *Serratia marcescens* ES-2 for kinetic resolution of (*S*)-flurbiprofen 24
- (*R,S*)-Flurbiprofen ethyl ester
Enantioselective properties of extracellular lipase from *Serratia marcescens* ES-2 for kinetic resolution of (*S*)-flurbiprofen 24
- Gelatin
Entrusting poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
- β -glucosidase
Synthesis of naturally occurring β -D-glucopyranoside based on enzymatic β -glycosidation 8
- β -glycosidation
Synthesis of naturally occurring β -D-glucopyranoside based on enzymatic β -glycosidation 8
- Glucanase
Highly efficient immobilization of endo-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition 16
- Glucoside
Enzymatic synthesis and characterization of novel epigallocatechin gallate glucosides 1
- Immobilization
Highly efficient immobilization of endo-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition 16
Direct immobilization of polyphenol oxidases on Celite 545 from ammonium sulphate fractionated proteins of potato (*Solanum tuberosum*) 58
- Inhibition
Inhibition of *Candida rugosa* lipase by saponins, flavonoids and alkaloids 138
- Irreversible resolution
The preparation of polymerizable, optically active non-steroidal anti-inflammatory drugs derivatives by irreversible enzymatic methods 51
- Kinetic resolution
Enantioselective properties of extracellular lipase from *Serratia marcescens* ES-2 for kinetic resolution of (*S*)-flurbiprofen 24
- Kinetics
Kinetics and thermodynamics of synthesis of propyl gallate by mycelium-bound tannase from *Aspergillus niger* in organic solvent 44
- Laminaran
Highly efficient immobilization of endo-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition 16
- Leuconostoc mesenteroides* glucansucrase
Enzymatic synthesis and characterization of novel epigallocatechin gallate glucosides 1
- Lipase
Enantioselective properties of extracellular lipase from *Serratia marcescens* ES-2 for kinetic resolution of (*S*)-flurbiprofen 24
Entrusting poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
The preparation of polymerizable, optically active non-steroidal anti-inflammatory drugs derivatives by irreversible enzymatic methods 51
Chemoenzymatic synthesis of (*S*)- and (*R*)- γ -cyclogeraniols 64
Design of new chromogenic substrates for the spectrophotometric assay of lipolytic activity of lipases 76
Selective lipase-catalyzed preparation of diol monobenzoates by transesterification and alcoholysis reactions in organic solvents 81
Probing conformations of the glycerol backbones of triacylglycerols in the active site of lipase by 1,2-cyclopentane-carbamates: The *meso* effect for the enzyme inhibition 86
Synthesis and lipase-catalyzed resolution studies on novel (\pm)-2-(2-acetoxyethyl)-4-arylmethyl-3-oxo-3,4-dihydro-2*H*-1,4-benzoxazine-6-carboxylates 101
Lipases: Useful biocatalysts for the preparation of pharmaceuticals 111
Statistical optimization of medium components and growth conditions by response surface methodology to enhance lipase production by *Aspergillus carneus* 121
Characterization of 1,3-regiospecific lipases from new *Pseudomonas* and *Bacillus* isolates 127
Propionibacterium acnes GehA lipase, an enzyme involved in acne development, can be successfully inhibited by defined natural substances 132
- Lipids
Serum pancreatic lipase [EC 3.1.1.3] activity, serum lipid profile and peripheral blood dendritic cell populations in normolipidemic males with psoriasis 144
- Lipolytic activity
Design of new chromogenic substrates for the spectrophotometric assay of lipolytic activity of lipases 76
- Lipolytic enzymes
Biosensors for the evaluation of lipase activity 155
- Methods
Biosensors for the evaluation of lipase activity 155
- Natural product synthesis
Synthesis of naturally occurring β -D-glucopyranoside based on enzymatic β -glycosidation 8
- 4-Nitrophenyl esters
Design of new chromogenic substrates for the spectrophotometric assay of lipolytic activity of lipases 76
- Novozyme-435
Novel selective biocatalytic deacetylation studies on dihydropyrimidinones 93
- NSAIDs
The preparation of polymerizable, optically active non-steroidal anti-inflammatory drugs derivatives by irreversible enzymatic methods 51
- Organic solvent
Kinetics and thermodynamics of synthesis of propyl gallate by mycelium-bound tannase from *Aspergillus niger* in organic solvent 44
- Pancreatic lipase
Serum pancreatic lipase [EC 3.1.1.3] activity, serum lipid profile and peripheral blood dendritic cell populations in normolipidemic males with psoriasis 144
- Pharmaceuticals
Lipases: Useful biocatalysts for the preparation of pharmaceuticals 111
- 4-Phenyl-3,4-dihydropyrimidinones
Novel selective biocatalytic deacetylation studies on dihydropyrimidinones 93
- Poly(acrylonitrile-*co*-maleic acid)
Entrusting poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
- Polyphenol oxidase
Direct immobilization of polyphenol oxidases on Celite 545 from ammonium sulphate fractionated proteins of potato (*Solanum tuberosum*) 58

- Prodrug**
The preparation of polymerizable, optically active non-steroidal anti-inflammatory drugs derivatives by irreversible enzymatic methods 51
- Propionibacterium acnes***
Propionibacterium acnes GehA lipase, an enzyme involved in acne development, can be successfully inhibited by defined natural substances 132
- Pseudomonas* spp.**
Characterization of 1,3-regiospecific lipases from new *Pseudomonas* and *Bacillus* isolates 127
- Psoriasis**
Serum pancreatic lipase [EC 3.1.1.3] activity, serum lipid profile and peripheral blood dendritic cell populations in normolipidemic males with psoriasis 144
- 1,3-Regiospecificity**
Characterization of 1,3-regiospecific lipases from new *Pseudomonas* and *Bacillus* isolates 127
- Resolution**
Synthesis and lipase-catalyzed resolution studies on novel (\pm)-2-(2-acetoxyethyl)-4-arylmethyl-3-oxo-3,4-dihydro-2H-1,4-benzoxazine-6-carboxylates 101
- Response surface methodology**
Statistical optimization of medium components and growth conditions by response surface methodology to enhance lipase production by *Aspergillus carneus* 121
- Saponins**
Propionibacterium acnes GehA lipase, an enzyme involved in acne development, can be successfully inhibited by defined natural substances 132
Inhibition of *Candida rugosa* lipase by saponins, flavonoids and alkaloids 138
- Serratia marcescens* ES-2**
Enantioselective properties of extracellular lipase from *Serratia marcescens* ES-2 for kinetic resolution of (*S*)-flurbiprofen 24
- Silica nanocomposite**
Highly efficient immobilization of endo-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition 16
- Simulation**
Kinetics and thermodynamics of synthesis of propyl gallate by mycelium-bound tannase from *Aspergillus niger* in organic solvent 44
- Sol-gel technology**
Highly efficient immobilization of endo-1,3- β -D-glucanases (laminarinases) from marine mollusks in novel hybrid polysaccharide-silica nanocomposites with regulated composition 16
- Spectrophotometric assay**
Design of new chromogenic substrates for the spectrophotometric assay of lipolytic activity of lipases 76
- Stability**
Direct immobilization of polyphenol oxidases on Celite 545 from ammonium sulphate fractionated proteins of potato (*Solanum tuberosum*) 58
- Steroids**
A convenient chemoenzymatic synthesis of (1*S*,7*aS*)-1-hydroxy-5-oxo-4-(2'-carboxyethyl)-7*a*-methyltetrahydro-indane—a key intermediate of steroids 38
- Substrates**
Biosensors for the evaluation of lipase activity 155
- Synthesis**
Synthesis and lipase-catalyzed resolution studies on novel (\pm)-2-(2-acetoxyethyl)-4-arylmethyl-3-oxo-3,4-dihydro-2H-1,4-benzoxazine-6-carboxylates 101
- Tannase**
Kinetics and thermodynamics of synthesis of propyl gallate by mycelium-bound tannase from *Aspergillus niger* in organic solvent 44
- Terpenoids**
A convenient chemoenzymatic synthesis of (1*S*,7*aS*)-1-hydroxy-5-oxo-4-(2'-carboxyethyl)-7*a*-methyltetrahydro-indane—a key intermediate of steroids 38
- Thermodynamics**
Kinetics and thermodynamics of synthesis of propyl gallate by mycelium-bound tannase from *Aspergillus niger* in organic solvent 44
- Transesterification**
Selective lipase-catalyzed preparation of diol monobenzoates by transesterification and alcoholysis reactions in organic solvents 81
- Triolein**
Characterization of 1,3-regiospecific lipases from new *Pseudomonas* and *Bacillus* isolates 127
- Ultrafiltration hollow fiber membrane**
Entrusting poly(acrylonitrile-co-maleic acid) ultrafiltration hollow fiber membranes with biomimetic surfaces for lipase immobilization 30
- Vinyl esters**
The preparation of polymerizable, optically active non-steroidal anti-inflammatory drugs derivatives by irreversible enzymatic methods 51
- Water-miscible organic solvents**
Direct immobilization of polyphenol oxidases on Celite 545 from ammonium sulphate fractionated proteins of potato (*Solanum tuberosum*) 58