

Volume Contents

VOL. 32 (1–2), 22 DECEMBER 2004

Articles

- Synthesis of kyotorphin precursor by an organic solvent-stable protease from *Bacillus licheniformis* RSP-09-37
R. Sareen (New Delhi, India and Greifswald, Germany), U.T. Bornscheuer (Greifswald, Germany) and P. Mishra (New Delhi, India) 1
- Peroxidase-catalyzed synthesis of neolignan and its anti-inflammatory activity
S.-C. Tzeng and Y.-C. Liu (Keelung, Taiwan) 7
- NMR monitoring of lipase-catalyzed reactions of prostaglandins: preliminary estimation of reaction velocities
I. Vallikivi, I. Järving, T. Pehk, N. Samel, V. Tõugu and O. Parve (Tallinn, Estonia) 15
- Effect of exogenous iron on aerobic catalytic mechanism of soybean lipoxygenase
K. Cai, Y. Fang (Wuxi, China), Y.- Xia (Wuxi, China and Ann Arbor, MI, USA) and Y.-f. Su (Wuxi, China) 21
- Production of *N*^α-benzyloxycarbonyl-L-aminoadipic acid and *N*^α-benzyloxycarbonyl-D-aminoadipic acid with *Rhodococcus* sp. AIU Z-35-1
K. Isobe, K. Tokuta, Y. Narita (Morioka, Japan), A. Matsuura, T. Sakaguchi (Osaka, Japan) and N. Wakao (Morioka, Japan) 27
- Lipase-catalysed preparation of enantiomerically enriched odorants
A. Abate, E. Brenna, C. Fuganti, F.G. Gatti and S. Serra (Milano, Italy) 33
- Enantioselective acylation of R-2-pentanol in a solid/gas reactor catalysed by lipase B from *Candida antarctica*
V. Leonard, S. Lamare, M.-D. Legoy and M. Graber (La Rochelle, France) 53

VOL. 32 (3), 10 JANUARY 2005

Articles

- Chrysotile as a support for the immobilisation of *Mycobacterium* sp. NRRL B-3805 cells for the bioconversion of β-sitosterol in an organic–aqueous two-liquid phase system
R. Wendhausen (Lisboa, Portugal and Blumenau, Brazil), M. Frigato (Blumenau, Brazil), P. Fernandes, C.C.C.R. Carvalho, A. Cruz, H.M. Pinheiro and J.M.S. Cabral (Lisboa, Portugal) 61
- Acetylenic polymers as new immobilization matrices for lipolytic enzymes
F. Panzavolta, S. Soro, R. D'Amato, C. Palocci, E. Cernia and M.V. Russo (Rome, Italy) 67
- Method for the enzymatic synthesis of 2-phospho-D-glycerate from adenosine 5'-triphosphate and D-glycerate via D-glycerate-2-kinase
P.A. Sims and G.H. Reed (Madison, WI, USA) 77
- Construction and optimization of a monophasic organic–water system for enzymatic synthesis of *p*-nitrobenzyl β-D-glucopyranosides by reverse hydrolysis
A.-M. Tong, J.-H. Xu, W.-Y. Lu and G.-Q. Lin (Shanghai, China) 83
- Aryl substituted *N*-hydroxyphthalimides as mediators in the laccase-catalysed oxidation of lignin model compounds and delignification of wood pulp
C. Annunziatini, P. Baiocco, M.F. Gerini, O. Lanzalunga (Rome, Italy) and B. Sjögren (Stockholm, Sweden) 89
- Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles
L. Betancor, M. Fuentes, G. Dellamora-Ortiz, F. López-Gallego, A. Hidalgo, N. Alonso-Morales, C. Mateo, J.M. Guisán and R. Fernández-Lafuente (Madrid, Spain) 97
- Biotransformation of valencene by cultured cells of *Gynostemma pentaphyllum*
H. Sakamaki, K.-i. Itoh, T. Taniai, S. Kitanaka (Chiba, Japan), Y. Takagi (Kanagawa, Japan), W. Chai and C.A. Horiuchi (Tokyo, Japan) 103
- Lipase catalyzed transesterification of methyl acetoacetate with *n*-butanol
G.D. Yadav and P.S. Lathi (Mumbai, India) 107
- Announcement I
- Guide for Authors III

VOL. 32 (4), 1 FEBRUARY 2005

Articles

- Comparison of hydrolytic activities in aqueous and organic media for lipases immobilized on poly(acrylonitrile-*co*-maleic acid) ultrafiltration hollow fiber membrane
P. Ye, Z.-K. Xu, Z.-G. Wang, J. Wu, H.-T. Deng (Hangzhou, PR China) and P. Seta (Montpellier, France) 115

Biotransformation of (+)-(1 <i>R</i>)- and (–)-(1 <i>S</i>)-fenchone by the larvae of common cutworm (<i>Spodoptera litura</i>) M. Miyazawa and Y. Miyamoto (Osaka, Japan)	123
Hydrogenation of the C–C double bond of maleimides with cultured plant cells T. Hirata, A. Takarada, M.-E.F. Hegazy, Y. Sato, A. Matsushima (Higashi-Hiroshima, Japan), Y. Kondo, A. Matsuki and H. Hamada (Okayama, Japan)	131
Biooxidation of ketones with a cyclobutanone structural motif by recombinant whole-cells expressing 4-hydroxyacetophenone monooxygenase M.D. Mihovilovic, P. Kapitan, J. Rydz, F. Rudroff (Vienna, Austria), F.H. Ogink and M.W. Fraaije (AG Groningen, The Netherlands)	135
Synthesis of versatile chiral intermediate for drimane sesquiterpenes and labdane diterpenes based on enzymatic resolution Y. Amano, M. Kinoshita and H. Akita (Chiba, Japan)	141
Enhanced activity and stability of <i>Chromobacterium viscosum</i> lipase in AOT reverse micellar systems by pretreatment with acetone M.M. Zaman, Y. Hayashi (Kanazawa, Japan), M.M.R. Talukder (Singapore, Singapore) and T. Kawanishi (Kanazawa, Japan)	149
Microbial deracemization of α -amino acids D.-I. Kato, K. Miyamoto and H. Ohta (Yokohama, Japan)	157

VOL. 32 (5–6), 1 MARCH 2005

Articles

Assessing substrate acceptance and enantioselectivity of yeast reductases in reactions with substituted α -keto β -lactams Y. Yang, M.M. Kayser (Saint John, Canada), F.D. Rochon (Montréal, Canada), S. Rodríguez and J.D. Stewart (Gainesville, FL, USA)	167
Immobilization of epoxide hydrolase from <i>Aspergillus niger</i> onto DEAE-cellulose: enzymatic properties and application for the enantioselective resolution of a racemic epoxide S. Karboune, A. Archelas, R. Furstoss and J. Baratti (Marseille, France)	175
Kinetic study of monophenol and <i>o</i> -diphenol binding to oxytyrosinase F. García-Molina, M.J. Peñalver, L.G. Fenoll, J.N. Rodríguez-López (Murcia, Spain), R. Varón (Albacete, Spain), F. García-Cánovas and J. Tudela (Murcia, Spain)	185
Compared esterification kinetics of the lipase from <i>Burkholderia cepacia</i> either free or encapsulated in a silica aerogel S. Maury, P. Buisson, A. Perrard and A.C. Pierre (Villeurbanne, France)	193
Purification and properties of D-hydantoin hydrolase and <i>N</i> -carbamoyl-D-amino acid amidohydrolase from <i>Flavobacterium</i> sp. AJ11199 and <i>Pasteurella</i> sp. AJ11221 H. Nozaki, I. Kira, K. Watanabe and K. Yokozeki (Kawasaki, Japan)	205
D-Amino acid production by <i>E. coli</i> co-expressed three genes encoding hydantoin racemase, D-hydantoinase and <i>N</i> -carbamoyl-D-amino acid amidohydrolase H. Nozaki, Y. Takenaka, I. Kira, K. Watanabe and K. Yokozeki (Kawasaki, Japan)	213
Efficient immobilization of epoxide hydrolase onto silica gel and use in the enantioselective hydrolysis of racemic <i>para</i> -nitrostyrene oxide A. Petri, P. Marconcini and P. Salvadori (Pisa, Italy)	219
Activation in the family of <i>Candida rugosa</i> isolipases by polyethylene glycol C. Otero, M. Fernández-Pérez, J.A. Hermoso and M.M. Ripoll (Madrid, Spain)	225
The adsorption characteristics, activity and stability of trypsin onto mesoporous silicates D. Goradia, J. Cooney, B.K. Hodnett and E. Magner (Limerick, Ireland)	231
Study on the kinetics of enzymatic interesterification of triglycerides for biodiesel production with methyl acetate as the acyl acceptor Y. Xu, W. Du and D. Liu (Beijing, PR China)	241
Esterification of streptol — a cyclitol derivative — by <i>Candida rugosa</i> lipase: influence of the acyl donor on regioselectivity W. Kroutil (Graz, Austria), L. Hagmann, T.C. Schuez, V. Jungmann and J.P. Pachlatko (Basel, Switzerland)	247
Biocatalytic properties of native and immobilized subtilisin 72 in aqueous-organic and low water media A.V. Bacheva, A.V. Belyaeva, E.N. Lysogorskaya, E.S. Oksenoit, V.I. Lozinsky and I.Yu. Filippova (Moscow, Russia)	253
Comparison and functional characterisation of three homologous intracellular carboxylesterases of <i>Bacillus subtilis</i> M.J. Dröge, R. Bos, Y.L. Boersma and W.J. Quax (Groningen, The Netherlands)	261
Reaction of <i>Trigonopsis variabilis</i> D-amino acid oxidase with 2,6-dichloroindophenol: kinetic characterisation and development of an oxygen-independent assay of the enzyme activity C. Trampitsch, A. Slavica (Graz, Austria), W. Riethorst (Kundl, Austria) and B. Nidetzky (Graz, Austria)	271
Author Index	279
Subject Index	283
Volume Contents	289