

# Bibliography of carbohydrate polymers

(Six weeks journals. Search completed at 12th Feb 1997)

## 1 BOOKS, REVIEWS & SYMPOSIA

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Excimer formation and excitation energy transfer in Langmuir-Blodgett films of cellulose derivatives containing carbazole

As a service to subscribers, each issue of the Journal contains a bibliography of newly published material in the field of carbohydrate polymers. The bibliography is divided into thirteen sections: 1 Books, Reviews & Symposia; 2 Cellulose; 3 Cellulose-degrading Enzymes; 4 Chitin/Chitosan; 5 Cyclodextrins; 6 Lignin; 7 Lipopolysaccharides; 8 Pectin; 9 Starch; 10 Starch-degrading Enzymes; 11 Polysaccharides - Microbial; 12 Polysaccharides - Plant; 13 Polysaccharides - Other. Within each section, articles are listed in alphabetical order with respect to author. When there are no publications to appear under one of these headings, that section will be omitted.

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Thermal and spectral studies on cellulose modified with various cresyldichlorothiophosphates
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- Lee KY, Park WH, Ha WS\*// \*Seoul Natl Univ, Dept Fiber & Polymer Sci, Seoul 151742, South Korea  
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Controlled release of interleukin-2 for tumour immunotherapy using alginate/chitosan porous microspheres
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- Minamisawa H, Tatehara Y, Arai N, Okutani T// Nihon Univ, Dept Liberal Arts & Basic Sci, Shinei cho, Narashino, Chiba 275, Japan  
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## 5 CYCLODEXTRINS

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*J Chem Soc Dalton Trans* 1996 (23) 4351

Characterization and superoxide dismutase activity of copper(II) complexes of 6<sup>A</sup>,6<sup>X</sup>-difunctionalized  $\beta$ -cyclodextrins

Bornaghi L, Utile JP, Penninga D, Schmidt AK, Dijkhuizen L, Schulz GE, Driguez H\*// \*Univ Grenoble 1, CNRS, Ctr Rech Macromol Vegetales, BP 53, F-58041 Grenoble 9, France

*Chem Commun* 1996 (22) 2541

Enzymic synthesis of cyclodextrins

Bugnon P, Lye PG, Abou-Hamdan A, Merbach AE\*// \*Univ Lausanne, Inst Chim Minerale & Analyt, CH-1015 Lausanne, Switzerland

*Chimia* 1996 **50** (12) 615

High-pressure stopped-flow study of inclusion reactions with  $\alpha$ -cyclodextrin. Dynamic aspects in host-guest interactions

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The first volume profile for a host-guest interaction: A variable pressure kinetic study of an inclusion reaction with  $\alpha$ -cyclodextrin

Chen Z, Bradshaw JS\*, Yi GL, Pyo D, Black DR, Zimmerman SS, Lee ML// \*Brigham Young Univ, Dept Chem & Biochem, Provo, Ut 84602, USA

*J Org Chem* 1996 **61** (25) 8949

Self-inclusion complexes derived from cyclodextrins: Synthesis and characterization of 6<sup>A</sup>,6<sup>B</sup>-bis-*O*-[*p*-(allyloxy)phenyl]-substituted  $\beta$ -cyclodextrins

Chmurski K, Bilewicz R\*, Jurczak J// \*Univ Warsaw, Dept Chem, Pasteura 1, PL-02093 Warsaw, Poland

*Langmuir* 1996 **12** (25) 6114

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Donnecke J, Paul C, Konig WA\*, Svensson LA, Gyllenhaal O, Vessman J// \*Univ Hamburg, Inst Organ Chem, Martin Luther King Pl 6, D-20146 Hamburg, Germany

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*Int J Pharm* 1996 **143** (2) 203

Characterization and *in vitro* dissolution behaviour of ketoconazole/ $\beta$ - and 2-hydroxypropyl- $\beta$ -cyclodextrin inclusion compounds

Fernandez JMG, Mellet CO, Maciejewski S, Defaye J// CSIC, Inst Invest Quim, Amer Vespucio s/n, Isla Cartuja, E-41092 Seville, Spain

*Chem Commun* 1996 (24) 2741

Thioureido- $\beta$ -cyclodextrins as molecular carriers

He P, Ye J, Fang YY\*, Suzuki I, Osa T// \*East China Normal Univ, Dept Chem, Shanghai 200062, Peoples Rep China

*Electroanal* 1997 **9** (1) 68

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Janini GM, Muschik GM, Issaq HJ// NCI, Frederick Canc Res & Dev Ctr, Frederick, Md 21702, USA

*Electrophoresis* 1996 **17** (10) 1575

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Jing P, Fu RN, Dai RJ, Gu JL// Xian Jiaotong Univ, Dept Appl Chem & Fine Chem Engr, Xian 710049, Shaanxi, Peoples Rep China

*Chromatographia* 1996 **43** (11-12) 628

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Jung M, Francotte E\*// \*Ciba Geigy AG, Pharmaceut Res, CH-4002 Basel, Switzerland

*J Chromatogr A* 1996 **755** (1) 81

Comparison of  $\gamma$ -cyclodextrin sulfobutyl ether and unmodified  $\gamma$ -cyclodextrin as chiral selectors in capillary electrophoresis

Kulikov OV, Lapshev PV// Russian Acad Sci, Inst Nonaqueous Solut Chem, Ivanovo 153045, Russia

*Mendeleev Commun* 1996 (6) 255

Interactions of  $\beta$ -cyclodextrin with nonpolar and aromatic amino acids in water

Li WD, Corke H, Zhang LT// Univ Hong Kong, Cereal Lab, Dept Bot, Pokfulam Rd, Hong Kong

*Starch* 1996 **48** (10) 382

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Lucy CA, Brown R, Yeung KKC// Univ Calgary, Dept Chem, 2500 Univ Dr NW, Calgary, Alberta, Canada T2N 1N4

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Matveenko VN, Volchkova IL, Parfenev AN, Ivanov AV// Moscow MV Lomonosov State Univ, Moscow, Russia

*Russ J Appl Chem-Eng Tr* 1996 **69** (5) 720

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Park KHK, Park JM// Chungnam Natl Univ, Dept Chem, Taejon 305764, South Korea

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*Colloid Surface A* 1996 **119** (2-3) 149

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Schmid MG, Wirmsberger K, Gubitz G\*// \*Graz Univ, Inst Pharmaceut Chem, Univ Pl 1, A-8010 Graz, Austria

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Chiral separation of drug enantiomers by capillary electrophoresis using succinyl- $\beta$ -cyclodextrin

## 6 LIGNIN

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Chen CC, Adolphson R, Dean JFD, Eriksson KEL, Adams MWW, Westpheling J\*// \*Univ Georgia, Dept Genet, Life Sci Bldg, Athens, Ga 30602, USA

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Gogotov AF, Makovskaya TI, Babkin VA// Russian Acad Sci, Inst Organ Chem, Siberian Div, Irkutsk, Russia

*Russ J Appl Chem-Eng Tr* 1996 **69** (5) 776

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Lawther JM, Sun RC\*, Banks WB// \*Univ Coll Nth Wales, Biocomposites Ctr, Bangor LL57 2UW, Wales

*Ind Crops Products* 1996 **5** (4) 291

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Neto CP, Cordeiro N, Seca A, Domingues F, Gandini A, Robert D// Univ Aveiro, Dept Quim, P-3800 Aveiro, Portugal

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Orejuela LM, Helm RF// Virginia Polytech Inst & State Univ, Dept Wood Sci & Forest Prod, Blacksburg, Va 24061, USA

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Pothast A, Schiene R, Fischer K// Tech Univ Dresden, Inst Holz & Pflanzenchem, Piennner Str 23, D-01737 Tharandt, Germany

*Holzforchung* 1996 **50** (6) 554

Structural investigations of N-modified lignins by  $^{15}\text{N}$ -NMR spectroscopy and possible pathways for formation of nitrogen containing compounds related to lignin

Simon JP, Eriksson KEL// Univ Georgia, Dept Biochem & Mol Biol, Ctr Biol Resource Recovery, Athens, Ga 30602, USA  
*J Mol Struct* 1996 **384** (1) 1

The significance of intra-molecular hydrogen bonding in the  $\beta$ -O-4 linkage of lignin

Sun RC, Lawther JM, Banks WB// Univ Wales, Biocomposites Ctr, Bangor LL57 2UW, Wales  
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Effects of extraction time and different alkalis on the composition of alkali-soluble wheat straw lignins

## 7 LIPOPOLYSACCHARIDES

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*Carbohydr Res* 1996 **295** 127

The structures of oligosaccharides isolated from the lipopolysaccharide of *Moraxella catarrhalis* serotype B, strain CCUG 3292

Gaur D, Wilkinson SG\*// \*Univ Hull, Sch Chem, Hull HU6 7RX, England

*Carbohydr Res* 1996 **295** 179

Structure of the O-specific polysaccharide from *Burkholderia vietnamiensis* strain LMG 6998

James EA, Schmeltzer K, Ligler FS\*// \*USN, Res Lab, Washington, DC 20375, USA

*Appl Biochem Biotech* 1996 **60** (3) 189

Detection of endotoxin using an evanescent wave fiber-optic biosensor

Swierczko AS, Shashkov AS, Senchenkova SN, Toukach FV, Ziolkowski A, Cedzynski M, Paramonov NA, Kaca W, Knirel YA\*// \*ND Zelinski Inst Organ Chem, Russian Acad Sci, Leninsky pr 47, Moscow 117913, Russia  
*FEBS Lett* 1996 **398** (2-3) 297

Structural and serological studies of the O-specific polysaccharide of the bacterium *Proteus mirabilis* O10 containing L-altruronic acid, a new component of O-antigens

Toukach FV, Shashkov AS, Katzenellenbogen E, Kocharova NA, Czamy A, Knirel YA\*, Romanowksa E, Kochetkov NK// \*Address as above  
*Carbohydr Res* 1996 **295** 117

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