

Bibliography of carbohydrate polymers

(Four weeks journals. Search completed at 10th Nov 1995)

BOOKS, REVIEWS & SYMPOSIA

- Guzman-Maldonado H, Paredes-Lopez O// INIFAP, CAEB, Carr San Miguel Allende, Apdo Postal 112, Celaya, Guanajuato, Mexico
Crit Rev Food Sci Nutr 1995 35 (5) 373
- Amylolytic enzymes and products derived from starch: A review
- Taravel FR, Mazeau K, Tvaroska I// CNRS, BP 53X, Ctr Rech Macromolec Vegetales, F-38041 Grenoble 9, France
Braz J Med Biol Res 1995 28 (7) 723
- Conformational analysis of carbohydrates inferred from NMR spectroscopy and molecular modeling. Applications to the behavior of oligo-galactomannan chains (Review)

2 CELLULOSE

- Amin M, Darwish KA*, Mounir M, Abu-Elez M// *Cairo Univ, Fac Sci, Dept Phys, Giza, Egypt
J Appl Polym Sci 1995 58 (4) 935
- Irradiation effects on electrical properties of cellulose nitrate
- Bargmann-Leyder N, Tambute A, Caude M*// *Ecole Super Phys & Chim Ind Ville Paris, CNRS, URA 437, Lab Chim Analyt, 10 rue Vauquelin, F-75231 Paris 05, France
Chirality 1995 7 (5) 311
- A comparison of LC and SFC for cellulose- and amylose-derived chiral stationary phases
- Bloor DM, Wan-Yunus WMZ, Wan-Badhi WA, Li Y, Holzwarth JF, Wyn-Jones E// Univ Salford, Div Chem Sci, Salford M5 4WT, England
Langmuir 1995 11 (9) 3395
- Equilibrium and kinetic studies associated with the binding of sodium dodecyl sulfate to the polymers poly(propylene oxide) and ethyl(hydroxyethyl) cellulose
- Chen J, Steenackers D, Sandra P// State Univ Ghent, Dept Organ Chem, Krijgslaan 281 S4, B-9000 Ghent, Belgium
J Microcolumn Sep 1995 7 (3) 259
- Micro LC on cellulose triacetate (CTA): Influence of particle diameter and column temperature
- Ek R, Gren T, Henriksson U, Nyqvist H, Nystrom C, Odberg L// Uppsala Univ, Dept Pharm, S-75123 Uppsala, Sweden
Int J Pharm 1995 124 (1) 9
- Prediction of drug release by characterisation of the tortuosity in porous cellulose beads using a spin echo NMR technique
- Favier V, Chanzy H*, Cavaillat JY// *CNRS, BP 53, Ctr Rech Macromolec Vegetales, F-38041 Grenoble 09, France
Macromolecules 1995 28 (18) 6365
- Polymer nanocomposites reinforced by cellulose whiskers
- Fischer H, Murray M, Keller A, Odell JA// Eindhoven Univ Technol, Ctr Polymers & Composites, POB 513, 5600 MB Eindhoven, The Netherlands
J Mater Sci 1995 30 (18) 4623
- On the phase diagram of the system hydroxypropylcellulose-water
- Francotte E, Zhang T// Ciba Geigy AG, Dept Rech & Dev Pharmaceut, CH-4002 Basel, Switzerland
Analysis 1995 23 (5) M13
- Molecular and supramolecular effects in chromatography on stationary chiral cellulose phases (French, English Abstract)
- Gert EV, Shishonok MV, Zubets OV, Torgashov VI, Kaputskii FN// Balarussian State Univ, Physicochem Problems Res Inst, ul Leningradskaya 14, Minsk 220080, Byelarus
Vysokomol Soedin 1995 37 (7) 1130
- Preparation of powdered oxycellulose in nitric acid (Russian, English Abstract)
- Glasser WG, Samaranayake G, Dumay M, Dave V// Virginia Polytech Inst & State Univ, Coll Forestry & Wildlife Resources, Blacksburg, Va 24061, USA
J Polym Sci B-Polym Phys 1995 33 (14) 2045

- Novel cellulose derivatives. III. Thermal analysis of mixed esters with butyric and hexanoic acid
- Gunder W, Lippold BH, Lippold BC*// *Univ Dusseldorf, Inst Pharmaceut Technol, D-40225 Dusseldorf, Germany
Eur J Pharm Sci 1995 3 (4) 203
- Release of drugs from ethyl cellulose microcapsules (diffusion pellets) with pore formers and pore fusion
- Heiner AP, Sugiyama J, Teleman O// Tech Res Ctr Finland, POB 1503, SF-02044 Espoo, Finland
Carbohydr Res 1995 273 (2) 207
- Crystalline cellulose I α and I β studied by molecular dynamics simulation
- Huang Y, Shen JR// Acad Sinica, Guangzhou Inst Chem, Cellulose & Ligno-cellulose Chem Lab, POB 1122, Canton 510650, Peoples Rep China
Liq Cryst 1995 19 (3) 313
- Textures and defects in lyotropic liquid crystals of ethyl-cyanoethyl cellulose
- Iconomou L, Psarianos C, Koutinas A*// *Univ Patras, Dept Chem, Patras, Greece
J Ferment Bioeng 1995 79 (3) 294
- Ethanol fermentation promoted by delignified cellulosic material
- Knyazkova TV// Ukrainian Acad Sci, Inst Colloid & Water Chem, Dept Water Treatment Proc & Apparatus, Kiev 252680, Ukraine
Catal Today 1995 25 (3-4) 255
- Immobilization of polymers on cellulose acetate membranes
- Kodama N, Matsumoto M, Sasaki T// Fukushima Med Coll, Dept Neurosurg, 1 Hikarigaoka, Fukushima 96012, Japan
J Neurosurg 1995 83 (4) 748
- Preservation of the arteries around an aneurysm: Practical use of oxycellulose
- Lambert SE, Reilly WJ, Schwartz JB*// *Philadelphia Coll Pharm & Sci, Dept Pharmaceut, Philadelphia, Pa 19014, USA
Drug Develop Ind Pharm 1995 21 (8) 2121
- Reprocessing of microcrystalline cellulose spheres with high drug concentrations
- Li XG, Huang MR, Lin G, Yang PC// Tianjin Inst Text Sci & Technol, Ctr Membrane Separat Engn, 63 Cheng Lin Zhuang Rd, Tianjin 300160, Peoples Rep China
Colloid Polym Sci 1995 273 (8) 772
- Effect of pressure on oxygen enrichment of liquid crystalline cellulose ether membranes at elevated temperature
- Liang XH, Guo YQ, Gu LZ, Ding EY// Chinese Acad Sci, Guangzhou Inst Chem, ICLC, POB 1122, Canton 510650, Peoples Rep China
Macromolecules 1995 28 (19) 6551
- Crystalline-amorphous phase transition of a poly(ethylene glycol) cellulose blend
- Lindell K, Engstrom S// Lund Univ, Ctr Chem, POB 124, S-22100 Lund, Sweden
Int J Pharm 1995 124 (1) 107
- Investigation of surfactant alkyl chain length and counterion effects on the thermogelling EHEC system
- Maekawa M, Murakami K, Yoshida H// Nara Women's Univ, Div Life Sci & Human Technol, Nara 630, Japan
Colloid Polym Sci 1995 273 (8) 793
- Effects of type of adsorption isotherms on parallel diffusion of sulfonated dyes into porous cellulose membrane
- Mais V, Ajossa S, Marongiu D, Peiretti RF, Guerriero S, Melis GB*// *Univ Cagliari, Osped San Giovanni Dio, Dept Obstet & Gynecol, Via Osped 46, I-09124 Cagliari, Italy
Obstet Gynecol 1995 86 (4 Pt 1) 512
- Reduction of adhesion reformation after laparoscopic endometriosis surgery: A randomized trial with an oxidized regenerated cellulose absorbable barrier
- Makashir PS, Mahajan RR, Agrawal JP*// *Explos Res & Dev Lab, Poona 411008, Maharashtra, India

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.

- J Therm Anal* 1995 **45** (3) 501
Studies on kinetics and mechanism of initial thermal decomposition of nitrocellulose: Isothermal and non-isothermal techniques
- Matsui T, Sano T, Yamane C, Kamide K, Okajima K// Asahi Chem Ind Co Ltd, Fundamental Res Lab Nat & Synthet Polymers, 11-7 Hacchonawate, Takatsuki, Osaka 569, Japan
Polym J 1995 **27** (8) 797
Structure and morphology of cellulose films coagulated from novel cellulose/aqueous sodium hydroxide solutions by using aqueous sulfuric acid with various concentrations
- Morimoto S, Sakata M, Iwata T, Esaki A, Hirayama C// *Kumamoto Univ, Fac Engn, Dept Appl Chem, Kumamoto 860, Japan
Polym J 1995 **27** (8) 831
Preparations and applications of polyethyleneimine-immobilized cellulose fibers for endotoxin removal
- Oikawa T, Morino T, Ameyama M// Kansai Univ, Fac Engn, Dept Biotechnol, Suita, Osaka 564, Japan
Biosci Biotechnol Biochem 1995 **59** (8) 1564
Production of cellulose from D-arabitol by *Acetobacter xylinum* KU-1
- Parajo JC, Santos V, Del Rio F// Univ Vigo, Dept Ingn Quim, Campus Orense, E-32004 Orense, Spain
Afinidad 1995 **52** (458) 267
Hydrolysis of the hemicellulosic fraction of *Pinus pinaster* wood. II. Production at higher pressures than the atmospheric one (Spanish, English Abstract)
- Radeva T// Bulgarian Acad Sci, Inst Phys Chem, BU-1113 Sofia, Bulgaria
J Colloid Interface Sci 1995 **174** (2) 368
Electric light scattering of ferric oxide particles in sodium carboxymethylcellulose solutions
- Ryshkina IS, Penzenzhik MA, Virnik AD// *AN Kosygin Moscow State Text Acad, Moscow, Russia
Russ J Appl Chem-Eng Tr 1995 **67** (10 Pt 2) 1492
Graft polymerization of *N,N*-dimethyl-*N,N*-diallylammonium chloride to cellulose
- Schoenenberger C, Le Nest JF*, Gandini A// *INPG, Ecole Francaise Papeterie & Ind Graph, BP 65, F-38402 St Martin d'Heres, France
Electrochim Acta 1995 **40** (13-14) 2281
Polymer electrolytes based on modified polysaccharides. II. Polyether-modified celluloses
- Sieger CHN, Kroon AGM, Batelaan JG, Van Ginkel CG// Akzo Nobel Cent Res, Analyt & Environm Chem Dept, Velperweg 76, 6824 BM Arnhem, The Netherlands
Carbohyd Polym 1995 **27** (2) 137
Biodegradation of carboxymethyl celluloses by *Agrobacterium* CM-1
- Sugiu K, Kinugasa K, Mandai S, Tokunaga K, Ohmoto T// Okayama Univ, Sch Med, Dept Neurol Surg, 2-5-1 Shikata cho, Okayama 700, Japan
J Neurosurg 1995 **83** (3) 531
Direct thrombosis of experimental aneurysms with cellulose acetate polymer (CAP): Technical aspects, angiographic follow up, and histological study
- Tezuka Y, Tsuchiya Y// Tokyo Inst Technol, Dept Organ & Polymer Mat, Meguro ku, Tokyo 152, Japan
Carbohyd Res 1995 **273** (1) 83
Determination of substituent distribution in cellulose acetate by means of a ¹³C NMR study on its propanoated derivative
- Tirkkonen S, Urtti A, Paronen P// Univ Kuopio, Dept Pharmaceut Technol, POB 1627, SF-70211 Kuopio, Finland
Int J Pharm 1995 **124** (2) 219
Buffer controlled release of indomethacin from ethylcellulose microcapsules
- Toyosaki H, Naritomi T, Seto A, Matsuoka M, Tsuchida T*, Yoshinaga F// *Biopolymer Res Co Ltd, Takatsu ku, KSP R&S Business Pk Bldg B-1015, 3-2-1 Sakato, Kawasaki, Kanagawa 213, Japan
Biosci Biotechnol Biochem 1995 **59** (8) 1498
Screening of bacterial cellulose-producing *Acetobacter* strains suitable for agitated culture
- Valleri M, Mura P// *Univ Florence, Dipt Sci Farmaceut, Via G Capponi 9, I-50121 Florence, Italy
Drug Develop Ind Pharm 1995 **21** (8) 2139
Factors influencing the release of aminophylline from tableted ethylcellulose microcapsules
- Watanabe Y, Koizumi KI, Zama Y, Kiriyaama M, Matsumoto Y, Matsumoto M// Showa Coll Pharmaceut Sci, Dept Pharmaceut, 3-3165 Higashi Tamagawagakuen, Machida, Tokyo 194, Japan
Biol Pharm Bull 1995 **18** (9) 1308
New compressed tablet rapidly disintegrating in saliva in the mouth using crystalline cellulose and a disintegrant
- Weimer PJ, Hackney JM, French AD// USDA ARS, US Dairy Forage Res Ctr, 1925 Linden Dr West, Madison, WI 53706, USA
Biotechnol Bioeng 1995 **48** (2) 169
- Effects of chemical treatments and heating on the crystallinity of celluloses and their implications for evaluating the effect of crystallinity on cellulose biodegradation
- Weiss G, Knoch A, Laicher A, Stanislaus F, Daniels R// Klinge Pharma GmbH, Dept Pharmaceut Technol, Berg am Lain Str 129, D-81673 Munich, Germany
Int J Pharm 1995 **124** (1) 97
Simple coacervation of hydroxypropyl methylcellulose phthalate (HPMCP). I. Temperature and pH dependency of coacervate formation
- Yashima E, Yamamoto C, Okamoto Y*// *Nagoya Univ, Sch Engn, Dept Appl Chem, Chikusa ku, Nagoya, Aichi 46401, Japan
Polym J 1995 **27** (8) 856
Enantioseparation on fluoro-methylphenylcarbamates of cellulose and amylose as chiral stationary phases for high-performance liquid chromatography

3 CELLULOSE-DEGRADING ENZYMES

- Bothwell MK, Walker LP// *Cornell Univ, Dept Agr & Biol Engn, Riley Robb Hall, Ithaca, NY 14853, USA
Bioresource Technol 1995 **53** (1) 21
Evaluation of parameter estimation methods for estimating cellulase binding constants
- Kim DW, Yoon YH, Jeong YK, Lee JK, Jang YH// Chungbuk Natl Univ, Coll Nat Sci, Dept Chem, Chongju 360763, South Korea
Bull Kor Chem Soc 1995 **16** (8) 720
Effect of adsorption of endoglucanase on the degradation of microcrystalline cellulose
- Kim DW, Jeong YK, Jang YH, Lee JK, Kim KS, Ryu H// Address as above.
Bull Kor Chem Soc 1995 **16** (8) 742
Kinetic mechanism of cellulose hydrolysis by endoglucanase I and exoglucanase II purified from *Trichoderma viride*
- Nakari-Setälä T, Penttilä M// VTT, Biotechnol & Food Res, SF-02044 Espoo, Finland
Appl Environ Microbiol 1995 **61** (10) 3650
Production of *Trichoderma reesei* cellulases on glucose-containing media
- Shen H, Gilkes NR, Kilburn DG, Miller RC, Warren RAJ*// *Univ British Columbia, Dept Microbiol & Immunol, 6174 Univ Blvd, Vancouver, Brit Columbia, Canada V6T 1Z3
Biochem J 1995 **311** (1) 67
Cellobiohydrolase B, a second exo-cellobiohydrolase from the cellulolytic bacterium *Cellulomonas fimi*

4 CHITIN/CHITOSAN

- Agarwal R, Gupta MN*// *Indian Inst Technol, Dept Chem, Delhi 110016, India
Anal Chim Acta 1995 **313** (3) 253
Evaluation of glutaraldehyde-modified chitosan as a matrix for hydrophobic interaction chromatography
- Crescenzi V, Imbriaco D, Velasquez CL, Dentini M, Ciferri A// Univ Roma La Sapienza, Dept Chem, I-00185 Rome, Italy
Macromol Chem Physics 1995 **196** (9) 2873
Novel types of polysaccharidic assemblies
- Demarger-Andre S, Domard A*// *Univ Claude Bernard Lyon 1, CNRS, URA 507, Lab Etud Mat Plast & Biomat, 43 Blvd 11 Novembre 1918, F-69622 Villeurbanne, France
Carbohyd Polym 1995 **27** (2) 101
Chitosan behaviours in a dispersion of undecylenic acid. Morphological aspects
- Esaiassen M, Overbo K, Olsen RL// Norwegian Inst Fisheries & Aquaculture, POB 2511, N-9002 Tromsø, Norway
Carbohyd Res 1995 **273** (1) 77
Analysis of *n*-acetyl-chitooligosaccharides by the Latroscan TLC/FID system
- Ikeda S, Kumagai H, Sakiyama T, Chu CH, Nakamura K// Univ Tokyo, Dept Appl Biol Chem, Div Agr & Agr Life Sci, Bunkyo ku, I-1-1 Yayoi, Tokyo 113, Japan
Biosci Biotechnol Biochem 1995 **59** (8) 1422
Method for analyzing pH-sensitive swelling of amphoteric hydrogels: Application to a polyelectrolyte complex gel prepared from xanthan and chitosan
- Li T, Brzezinski R, Beaulieu C*// *Univ Sherbrooke, Dept Biol, Rech Biol Actinomycetes Grp, Sherbrooke, Quebec, Canada J1K 2R1
Plant Physiol Biochem 1995 **33** (5) 599
Enzymatic production of chitosan oligomers
- Marek SM, Roberts CA, Beuselinck PR, Karr AL// Univ Calif Davis, Dept Plant Pathol, Davis, CA 95616, USA
Anal Biochem 1995 **230** (1) 184
Silver stain detection of chitinolytic enzymes after polyacrylamide gel electro-

phoresis

Martinou A, Kafetzopoulos D, Bouriots V*// *Inst Molec Biol & Biotechnol, Div Enzyme Technol, POB 1515, GR-71110 Crete, Greece

Carbohydr Res 1995 **273** (2) 235

Chitin deacetylation by enzymatic means: Monitoring of deacetylation processes

Mitsutomi M, Hata T, Kuwahara T// Saga Univ, Fac Agr, Dept Appl Biol Sci, Saga 840, Japan

J Ferment Bioeng 1995 **80** (2) 153

Purification and characterization of novel chitinases from *Streptomyces griseus* HUT 6037

Naseema A, Padayatti PS, Paulose CS// Cochin Univ Sci & Technol, Ctr Biotechnol, Molec Neurobiol & Cell Biol Unit, Cochin 682022, Kerala, India
Curr Sci 1995 **69** (5) 461

Mechanism of wound healing induced by chitosan in streptozotocin diabetic rats

Okazaki K, Kato F, Watanabe N, Yasuda S, Masui Y, Hayakawa S// Kagawa Univ, Fac Agr, Dept Bioresource Sci, Miki, Kagawa 76107, Japan

Biosci Biotechnol Biochem 1995 **59** (8) 1586

Purification properties of two chitinases from *Streptomyces* sp J-13-3

Peniche-Covas C, Arguelles-Monal W*, San Roman J// *Univ Havana, IMRE, Havana 10400, Cuba

Polym Int 1995 **38** (1) 45

Sorption and desorption of water vapour by membranes of the polyelectrolyte complex of chitosan and carboxymethyl cellulose

Seo T, Ohtake H, Unishi T, Iijima T// Fukui Univ, Fac Engr, Bunkyo ku, Fukui 910, Japan

J Appl Polym Sci 1995 **58** (3) 633

Permeation of solutes through chemically modified chitosan membranes

Shigemasa Y, Ishida A, Sashiwa H, Saimoto H, Okamoto Y, Minami S, Matsubashi A// Tottori Univ, Fac Engr, Dept Mat Sci, Tottori 680, Japan

Chem Lett 1995 (8) 623

Synthesis of a new chitin derivative, (1-carboxyethyl)chitosan

Takahashi Y, Miki F, Nagase K// Japan Women's Univ, Fac Sci, Dept Chem & Biol Sci, Bunkyo ku, Tokyo 112, Japan

Bull Chem Soc Jpn 1995 **68** (7) 1851

Effect of sonolysis on acid degradation of chitin to form oligosaccharides

Yamamoto Y, Fukunaga Y, Aoyagi H, Tanaka H*// *Univ Tsukuba, Inst Appl Biochem, Tsukuba, Ibaraki 305, Japan

J Ferment Bioeng 1995 **80** (2) 148

Purification and characteristics of chitinase secreted by cultured *Wasabia japonica* cells

Yao KD, Yin YJ, Xu MX, Wang YF// Tianjin Univ, Polymer Mat Res Inst, Tianjin 300072, Peoples Rep China

Polym Int 1995 **38** (1) 77

Investigation of pH-sensitive drug delivery system of chitosan/gelatin hybrid polymer network

5 CYCLODEXTRINS

Armspach D, Ashton PR, Ballardini R, Balzani V, Godi A, Moore CP, Prodi L, Spencer N, Stoddart JF*, Tolley MS, Wear TJ, Williams DJ // *Univ Birmingham, Sch Chem, POB 363, Birmingham B15 2TT, England

Chem-Eur J 1995 **1** (1) 33

Catenated cyclodextrins

Boudeville P, Burgot JL// Dept Physicochim & Biocinet Pharmacosyst, Lab Chim Analyt, 2 Ave Professeur Leon Bernard, F-35043 Rennes, France

J Pharm Sci 1995 **84** (9) 1083

A new pH-metric methodology for the determination of thermodynamic inclusion constants of guest/cyclodextrin complexes

Cserhati T// Hungarian Acad Sci, Cent Res Inst Chem, POB 17, H-1525 Budapest, Hungary

Int J Pharm 1995 **124** (2) 205

Interaction of some anticancer drugs with carboxymethyl- β -cyclodextrin

Fujita K, Shimada H, Ohta K, Nogami Y, Nasu K, Koga T// Nagasaki Univ, Fac Pharmaceut Sci, Bunkyo machi 1-14, Nagasaki 852, Japan

Angew Chem Int Ed 1995 **34** (15) 1621

β -Cyclotriol: A cyclotrioligosaccharide consisting of seven $\alpha(1\rightarrow4)$ -linked altopyranses

Georgalis Y, Schuler J, Umbach P, Saenger W// Free Univ Berlin, Inst Kristallog, Takustr 6, D-14195 Berlin, Germany

J Amer Chem Soc 1995 **117** (36) 9314

Light-scattering studies on the thermally induced crystallization transition of β -cyclodextrin

Hanessian S, Benalil A, Viet MTP// Univ Montreal, Dept Chem, POB 6128, Stn Ctr Ville, Montreal, Quebec, Canada H3C 3J7

Tetrahedron 1995 **51** (37) 10131

The intramolecular inclusion of aromatic esters within β -cyclodextrin as a function of chain length: A detailed NMR study

Hanessian S, Benalil A, Simard M, Belanger-Gariepy F// Univ Montreal, Dept Chem, POB 6128, Stn Ctr Ville, Montreal, Quebec, Canada H3C 3J7

Tetrahedron 1995 **51** (37) 10149

Crystal structures and molecular conformations of mono-6-azido-6-deoxy- α -cyclodextrin and mono-2-O-allyl- α -cyclodextrin: The formation of polymeric helical inclusion complexes

Helm H, Muller BW*, Waaler T// *Christian Albrechts Univ Kiel, Dept Pharmaceut, Gutenbergstr 76-78, D-24118 Kiel, Germany

Eur J Pharm Sci 1995 **3** (4) 195

Complexation of dihydroergotamine mesylate with cyclodextrin derivatives: Solubility and stability in aqueous solution

Hirai H, Shiraishi Y, Shirai H// Sci Univ Tokyo, Fac Engr, Dept Ind Chem, Shinjuku ku, Tokyo 162, Japan

Macromol Rapid Commun 1995 **16** (9) 697

One-step synthesis of 2,6-naphthalenedicarboxylic acid from naphthalene using cyclodextrin as catalyst

Hovgaard L// Royal Danish Sch Pharm, Dept Pharmaceut, 2 Univ Sparken, DK-2100 Copenhagen 0, Denmark

Pharmaceut Res 1995 **12** (9) 1328

Drug delivery studies in Caco-2 monolayers. IV. Absorption enhancer effects of cyclodextrins

Jarho P, Urtti A, Jarvinen T// Univ Kuopio, Dept Pharmaceut Chem, POB 1627, SF-70211 Kuopio, Finland

Pharmaceut Res 1995 **12** (9) 1371

Hydroxypropyl- β -cyclodextrin increases the aqueous solubility and stability of pilocarpine prodrugs

Jennings DW, Rousseau RW*// *Georgia Inst Technol, Sch Chem Engr, Atlanta, Ga 30332, USA

Carbohydr Res 1995 **273** (2) 243

Solubility and primary nucleation of cyclomaltoheptaose

Jindrich J, Josef P*, Lindberg B// *NIA, Gerontol Res Ctr, 4940 Eastern Ave, Baltimore, Md 21224, USA

Carbohydr Res 1995 **275** (1) 1

Separation of cyclodextrins and their derivatives by thin-layer and preparative column chromatography

Klein CT, Kohler G, Mayer B, Mraz K, Reiter S, Viernstein H, Wolschann P// Univ Vienna, Inst Pharmaceut Technol, Althanstr 14, A-1090 Vienna, Austria

J Inclusion Phenom Mol Recogn 1995 **22** (1) 15

Solubility and molecular modeling of triflumizole- β -cyclodextrin inclusion complexes

Kuroda Y, Suzuki Y, He JY, Kawabata T, Shibukawa A, Wada H, Fujima H, Gooh Y, Imai E, Nakagawa T// Kyoto Univ, Fac Pharmaceut Sci, Sakyo ku, Kyoto 606, Japan

J Chem Soc Perkin Trans II 1995 (9) 1749

Enantioselective recognition of a new chiral selector, β -cyclodextrin perphenylcarbamate, as studied by NMR spectroscopy and molecular energy calculation

Lee DH, Yoon KB, Hun WS// Kyungpook Nat Univ, Dept Polym Sci, Taegu 702-701, Korea

Macromol Symposia 1995 **97** 185

Metalocene MAO polymerization catalysts supported on cyclodextrin

Leray E, Leroy-Lechat F, Parrot-Lopez H*, Duchene D// *BIOCIS, CNRS, URA 1843, Grp Cyclodextrines Amphiphiles, Bat 305, 43 Blvd 11 Novembre 1918, F-69622 Villeurbanne, France

Supramol Chem 1995 **5** (2) 149

Reduction of the haemolytic effect in a biologically recognisable β -cyclodextrin

Pande GS, Shangraw RF*// *Univ Maryland, Sch Pharm, Dept Pharmaceut, Baltimore, Md 21201, USA

Int J Pharm 1995 **124** (2) 231

Characterization of β -cyclodextrin for direct compression tableting. II. The role of moisture in the compactibility of β -cyclodextrin

Politi MJ, Tran CD*, Gao GH// *Marquette Univ, Dept Chem, POB 1881, Milwaukee, WI 53201, USA

J Phys Chem 1995 **99** (38) 14137

Near-infrared spectroscopic investigation of inclusion complexes between cyclodextrins and aromatic compounds

Priyadarsini KI, Mohan H, Mittal JP*// *Bhabha Atom Res Ctr, Div Chem, Bombay 400085, Maharashtra, India

Fullerene Sci Technol 1995 **3** (5) 479

Characterization and properties of γ -cyclodextrin-C₆₀ complex in aqueous solution

Sarkar B, Das U, Bhattacharyya S, Bose SK*// *Univ Calcutta, Dept Chem, 92 APC Rd, Calcutta 700009, India

Bull Chem Soc Jpn 1995 **68** (7) 1807

The quenching of lumichrome fluorescence by β -cyclodextrin: Evidence for inclusion complex

Scialfani J, Liu PC, Hansen E, Cettina MG, Nightingale J// Ciba Geigy Corp, Basic Pharmaceut Res, MR2, Ardsley, NY 10502, USA
Int J Pharm 1995 **124** (2) 213

A protocol for the assessment of receiver solution additive-induced skin permeability changes. An example with γ -cyclodextrin

Sreenivasan K// Sree Chitra Tirunal Inst Med Sci & Technol, Biomed Technol Wing, Trivandrum 695012 Kerala, India
J Therm Anal 1995 **45** (3) 573

A novel differential scanning calorimetric method to study the complexation of β -cyclodextrin with steroid in solid state

Steiner T, Saenger W// *Free Univ Berlin, Inst Kristallog, Takustr 6, D-14195 Berlin, Germany
Carbohydr Res 1995 **275** (1) 73

Crystal structure of anhydrous heptakis-(2,6-di-O-methyl) cyclomaltoheptaose (dimethyl- β -cyclodextrin)

Yamamoto Y, Naka Y, Yoshida Y, Tagawa S// Osaka Univ, Inst Sci & Ind Res, 8-1 Mihogaoka, Ibaraki, Osaka 567, Japan
Chem Lett 1995 **9** 775

Determination of association constants for cyclodextrin inclusion complexation by pulse radiolysis

6 LIGNIN

Evtugin DV, Robert D, Zarubin MY// St Petersburg Forestry Engn Acad, St Petersburg, Russia

Russ J Appl Chem-Eng Tr 1995 **67** (10 Pt 2) 1486

Structural study of oxygen-acetone-lignins by quantitative ^{13}C NMR spectroscopy

Kirtikara K, Schaich KM, Fagan JM, Frenkel C// *Rutgers State Univ, Cook Coll, Dept Plant Sci, Blake Hall, POB 231, New Brunswick, NJ 08903, USA
J Microbiol Meth 1995 **23** (3) 253

Rapid method for preparation of pure veratryl alcohol for the assay of lignin peroxidase

Kosikova B, Revajova A, Demianova V// Slovak Acad Sci, Inst Chem, Dubravská Cesta 9, Bratislava 84238, Slovakia
Eur Polym J 1995 **31** (10) 953

The effect of adding lignin on modification of surface properties of polypropylene

Ralph J, Grabber JH, Hatfield RD// USDA/ARS, US Dairy Forage Res Ctr, 1925 Linden Dr West, Madison, WI 53706, USA
Carbohydr Res 1995 **275** (1) 167

Lignin-ferulate cross-links in grasses: Active incorporation of ferulate polysaccharide esters into ryegrass lignins

Roussel MR, Lim C// *Acad Sinica, Inst Biomed Sci, Taipei 11529, Taiwan
J Comput Chem 1995 **16** (10) 1181

Discrete, dynamic polymer modeling: A pseudo-diatomic model of lignin

Vares T, Kalsi M, Hatakka A// *Univ Helsinki, Dept Appl Chem & Microbiol, POB 27, SF-00014 Helsinki, Finland
Appl Environ Microbiol 1995 **61** (10) 3515

Lignin peroxidases, manganese peroxidases, and other ligninolytic enzymes produced by *Phlebia radiata* during solid-state fermentation of wheat straw

7 LIPOPOLYSACCHARIDES

Beynon LM, Cox AD, Taylor CJ, Wilkinson SG, Perry MB// Natl Res Council Canada, Inst Biol Sci, 100 Sussex Dr, Ottawa, Ontario, Canada K1A 0R6
Carbohydr Res 1995 **272** (2) 231

Characterization of a lipopolysaccharide O antigen containing two different trisaccharide repeating units from *Burkholderia cepacia* serotype E(O2)

Cedzynski M, Knirel YA, Rozalski A, Shashkov AS, Vinogradov EV, Kaca W// *Polish Acad Sci, Ctr Microbiol & Virol, Lodowa Str 106, PL-93232 Lodz, Poland
Eur J Biochem 1995 **232** (2) 558

The structure and serological specificity of *Proteus mirabilis* O43 O antigen

Fontaine T, Stephan MP, Laurent D, Previato JO, Mendonca-Previato L// Inst Pasteur, Unite Mycol, 25 rue Dr Roux, F-75015 Paris, France
FEMS Microbiol Lett 1995 **132** (1-2) 45

Lipopolysaccharides from six strains of *Acetobacter diazotrophicus*

Freer E, Rojas N, Weintraub A, Lindberg AA, Moreno E// *Univ Nacl, Escuela Med Vet, Programa Invest Enfermedades Trop, Heredia, Costa Rica
Res Microbiol 1995 **146** (7) 569

Heterogeneity of *Brucella abortus* lipopolysaccharides

Katzenellenbogen E, Romanowska E, Kocharova NA, Shashkov AS, Knirel YA*, Kochetkov NK// *Russian Acad Sci, ND Zelinskii Organ Chem Inst,

Leninsky prospekt 47, Moscow 117913, Russia

Carbohydr Res 1995 **273** (2) 187

Structure of the O-specific polysaccharide of *Hafnia alvei* 1204 containing 3,6-dideoxy-3-formamido-D-glucose

Knirel YA, Shashkov AS, Vinogradov EV, Swierczko A, Sidorczyk Z// Address as above.

Carbohydr Res 1995 **275** (1) 201

The structure of the O-specific polysaccharide chain of *Proteus penneri* strain 42 lipopolysaccharide

Lei PS, Ogawa Y, Flippen-Anderson JL, Kovac P// *NIDDK, Bethesda, Md 20892, USA

Carbohydr Res 1995 **275** (1) 117

Synthesis and crystal structure of methyl 4,6-dideoxy-4-(3-deoxy-L-glycero-tetronamido)-2-O-methyl- α -D-mannopyranoside, the methyl α -glycoside of the terminal unit, and presumed antigenic determinant, of the O-specific polysaccharide of *Vibrio cholerae* O:1, serotype Ogawa

Mulard LA, Claudemans CPJ// *NIDDK, Bethesda, Md 20892, USA

Carbohydr Res 1995 **274** 209

Synthesis of specifically deoxygenated disaccharide derivatives of the *Shigella dysenteriae* type 1 O-antigen

Pillay D, Pillay B, Wachters EA, Korsten L// Univ Durban Westville, Dept Microbiol, Private Bag X54001, Durban 4000, Rep Sth Africa

Lett Appl Microbiol 1995 **21** (3) 210

Electrophoretic and immunological analysis of lipopolysaccharides of *Xanthomonas albilineans* from three geographical regions

Schweda EKH, Jansson PE, Moxon ER, Lindberg AA// Karolinska Inst, Hud-dinge Hosp, Novum, Clin Res Ctr, S-14186 Huddinge, Sweden

Carbohydr Res 1995 **272** (2) 213

Structural studies of the saccharide part of the cell envelope lipooligosaccharide from *Haemophilus influenzae* strain galEgalK

Schweda EKH, Jonasson JA, Jansson PE// Address as above.

J Bacteriol 1995 **177** (18) 5316

Structural studies of lipooligosaccharides from *Haemophilus ducreyi* ITM 5535, ITM 3147, and a fresh clinical isolate, ACY1: Evidence for intrastrain heterogeneity with the production of mutually exclusive sialylated or elongated glycoforms

Senchenkova SN, Shashkov AS, Moran AP, Helander IM, Knirel YA// *Russian Acad Sci, ND Zelinskii Organ Chem Inst, Leninsky pr 47, B-334, Moscow 117913, Russia

Eur J Biochem 1995 **232** (2) 552

Structures of the O-specific polysaccharide chains of *Pectinatus cerevisiiphilus* and *Pectinatus frisingensis* lipopolysaccharides

Winn AM, Wilkinson SG// *Univ Hull, Sch Chem, Hull HU6 7RX, England

Carbohydr Res 1995 **272** (2) 225

Structure of the O6 antigen of *Stenotrophomonas* (*Xanthomonas* or *Pseudomonas*) maltophilia

8 PECTIN

Andersen AK, Larsen B, Grasdalen H// *Norwegian Inst Technol, Div Biotechnol, N-7034 Trondheim, Norway

Carbohydr Res 1995 **273** (1) 93

Sequential structure by ^1H NMR as a direct assay for pectinesterase activity

Chang TS, Siddiq M, Sinha NK, Cash JN// Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, MI 48824, USA

J Food Process Preserv 1995 **19** (2) 89

Commercial pectinases and the yield and quality of Stanley plum juice

Clewell AC, Clarke AH, Rowe AJ, Tombs MP// Univ Leicester, Dept Biochem, Natl Ctr Macromolec Hydrodynam, Adrian Bldg, Univ Rd, Leicester LE1 7RH, England

Biochem Soc Trans 1995 **23** (3) S498

Predicting the phase diagram for a gelatin-pectin system

Fukuzaki S, Urano H, Nagata K// Ind Technol Ctr, 5301 Haga, Okayama 70112, Japan

J Jpn Soc Food Sci Technol 1995 **42** (9) 700

Adsorption of pectin onto stainless steel surfaces: Role of electrostatic interactions

Green F, Clausen CA, Kuster TA, Highley TL// US Forest Serv, Forest Prod Lab, 1 Gifford Pinchot Dr, Madison, WI 53705, USA

World J Microbiol Biotechnol 1995 **11** (5) 519

Induction of polygalacturonase and the formation of oxalic acid by pectin in brown-rot fungi

Jarvis MC, Apperley DC// Univ Glasgow, Dept Chem, Glasgow G12 8QQ, Scotland

Carbohydr Res 1995 **275** (1) 131

Chain conformation in concentrated pectic gels: Evidence from ^{13}C -NMR

- Karam NE, Belarbi A// Univ Reims, BP 347, Fac Sci, Lab Microbiol Gen & Molec, F-51062 Reims, France
World J Microbiol Biotechnol 1995 **11** (5) 559
 Detection of polygalacturonases and pectin esterases in lactic acid bacteria
- Melnikova GG, Kuznetsova GB, Kallistov OV, Sidorovich AV// Kyrgyz Acad Sci, Inst Organ Chem, pr Chu 265, Bishkek 720171, Kyrgyzstan
Vysokomol Soedin 1995 **37** (7) 1206
 Supramolecular structure of aqueous salt solutions of apple pectin fractions: Elastic light scattering measurements (Russian, English Abstract)
- Renard CMGC, Crepeau MJ, Thibault JF// INRA, BP 1627, Ctr Rech Agroalimentaire, Lab Biochim & Technol Glucides, F-44316 Nantes 03, France
Carbohydr Res 1995 **275** (1) 155
 Structure of the repeating units in the rhamnogalacturonic backbone of apple, beet and citrus pectins
- Vazquez-Blanco ME, Lopez-Hernandez J*, Vazquez-Oderiz ML, Simal-Lozano J, Gonzalez-Castro MJ// *Univ Santiago de Compostela, Fac Farm, Dept Quim Analit Nutr & Bromatol, Area Nutr & Bromatol, E-15706 Santiago de Compostela, Spain
J Chromatogr Sci 1995 **33** (10) 551
 Determination of pectins by HPLC. A comparison of two methods applied to green beans (*Phaseolus vulgaris* L)

9 STARCH

- Akuzawa S, Sawayama S, Kawabata A// Tokyo Univ Agr & Technol, Fac Agr, Dept Nutr, Setagaya ku, 1-1-1 Sakuragaoka, Tokyo 156, Japan
Biosci Biotechnol Biochem 1995 **59** (9) 1605
 Selectivity and thermal properties of various starches incorporating free fatty acids
- Alexander RJ// Starch Tech, 295 Res Fox Rd SE, Cedar Rapids, Ia 52403, USA
Cereal Food World 1995 **40** (10) 763
 Potato starch: New prospects for an old product
- Alexander RJ// Address as above.
Cereal Food World 1995 **40** (10) 769
 Pregelatinized starches: What are they all about?
- Cai W, Diosady LL*, Rubin LJ// *Univ Toronto, Dept Chem Engr & Appl Chem, Toronto, Ontario, Canada M5S 1A4
J Food Eng 1995 **26** (3) 289
 Degradation of wheat starch in a twin-screw extruder
- Conrad H, Li Y, Chen Y// Nth Carolina State Univ, Dept Mat Sci & Engr, Box 7907, Raleigh, NC 27695, USA
J Rheol 1995 **39** (5) 1041
 The temperature dependence of the electrorheology and related electrical properties of corn starch/corn oil suspensions
- Davydova NI, Leont'ev SP, Genin YV, Sasov AY, Bogracheva TY*// *Russian Acad Sci, Inst Food Substance, Moscow, Russia
Carbohydr Polym 1995 **27** (2) 109
 Some physico-chemical properties of smooth pea starches
- Fujii N, Hamano M, Yuasa K// Kikkoman Foods Inc, Div Res & Dev, 399 Noda, Noda-shi, Chiba 278, Japan
Biosci Biotechnol Biochem 1995 **59** (9) 1761
 Inhibition of the autooxidation of methyl linoleate by protein and highly concentrated dextrin in an emulsion system
- Hashem MM, Bach E, Kesting W, Hebeish AA, Schollmeyer E*// *Deutsch Text Forschungszentrum NW EV, Frankenring 2, D-47798 Krefeld, Germany
Angew Makromol Chem 1995 **230** 189
 Synthesis of chemically bonded poly(vinyl alcohol)-starch composite
- Hattori M, Yang WH, Takahashi K*// *Tokyo Univ Agr & Technol, Fac Agr, Dept Appl Biol Sci, Tokyo 183, Japan
J Agr Food Chem 1995 **43** (8) 2007
 Functional changes of carboxymethyl potato starch by conjugation with whey proteins
- Hicsasmaz Z, Clayton JT// Middle East Tech Univ, Dept Food Engr, Ankara 06531, Turkey
J Food Process Eng 1995 **18** (3) 267
 Mechanisms involved in the infusion of starch based on porous food materials by oil based liquid foods
- Jacobs H, Eerlingen RC, Clauwaert W, Delcour JA*// *Katholieke Univ Leuven, Food Chem Lab, Kardinaal Mercierlaan 92, B-3001 Heverlee, Belgium
Cereal Chem 1995 **72** (5) 480
 Influence of annealing on the pasting properties of starches from various botanical sources
- Kamasaka H, Uchida M, Kusaka K, Yoshikawa K, Yamamoto K, Okada S, Ichikawa T// Ezaki Glico Co Ltd, Biochem Res Lab, Nishiyodogawa ku, 4-6-5 Utajima, Osaka 555, Japan

- Biosci Biotechnol Biochem* 1995 **59** (8) 1412
 Inhibitory effect of phosphorylated oligosaccharides prepared from potato starch on the formation of calcium phosphate
- Kasemsuwan T, Jane J*, Schnable P, Stinard P, Robertson D// *Iowa State Univ Sci & Technol, Dept Food Sci & Human Nutr, Ames, Ia 50011, USA
Cereal Chem 1995 **72** (5) 457
 Characterization of the dominant mutant amylose-extender (Ael-5180) maize starch
- Kim YS, Wiesenborn DP, Orr PH, Grant LA// Nth Dakota State Univ, Dept Cereal Sci, Fargo, ND 58105, USA
J Food Sci 1995 **60** (5) 1060
 Screening potato starch for novel properties using differential scanning calorimetry
- Luyten H, Van Vliet T// DLO, ATO, POB 17, 6700 AA Wageningen, The Netherlands
J Texture Stud 1995 **26** (3) 281
 Fracture properties of starch gels and their rate dependency
- Mua JP, Jackson DS*// *Univ Nebraska, Dept Food Sci & Technol, 256 Food Ind Bldg, Lincoln, Ne 68583, USA
Cereal Chem 1995 **72** (5) 508
 Fractionation of regular corn starch: A comparison of aqueous leaching and aqueous dispersion methods
- Navarro AS, Martino MN, Zaritzky NE// Natl Univ La Plata, CONICET, CIDCA, Fac Ciencias Exactas, RA-1900 La Plata, Argentina
J Food Eng 1995 **26** (4) 481
 Effect of freezing rate on the rheological behaviour of systems based on starch and lipid phase
- Obanni M, Be Miller JN*// *Purdue Univ, Dept Food Sci, Whistler Ctr Carbohydrate Res, 1160 Smith Hall, West Lafayette, In 47907, USA
Cereal Chem 1995 **72** (5) 436
 Identification of starch from various maize endosperm mutants via ghost structures
- Ohta Y, Takatani KI, Kawakishi S// Hiroshima Prefectural Food Technol Res Ctr, Minami ku, 12-70 Hijiyamahon machi, Hiroshima 732, Japan
Nippon Nogeikagaku Kaishi 1995 **69** (9) 1175
 Suppression by dextrans and polysaccharides of the decomposition of allyl isothiocyanate in aqueous solution (Japanese, English Abstract)
- Ousman M, Bennisar M*// *47 Chemin Peret, F-34820 Assas, France
J Membrane Sci 1995 **105** (1-2) 1
 Determination of various hydraulic resistances during cross-flow filtration of a starch grain suspension through inorganic membranes
- Pontoh J, Low NH*// *Univ Saskatchewan, Dept Appl Microbiol & Food Sci, Saskatoon, Saskatchewan, Canada S7N 0W0
Food Res Int 1995 **28** (4) 379
 Glucose syrup production from Indonesian palm and cassava starch
- Tharanathan RN// Cent Food Technol Res Inst, Dept Biochem & Nutr, Mysore 570013, Karnataka, India
J Sci Ind Res India 1995 **54** (8) 452
 Starch: The polysaccharide of high abundance and usefulness
- Trommsdorf U, Tomka I// ETH Zentrum, Inst Polymer, CH-8092 Zurich, Switzerland
Macromolecules 1995 **28** (18) 6128
 Structure of amorphous starch. I. An atomistic model and X-ray scattering study
- Trommsdorf U, Tomka I// Address as above.
Macromolecules 1995 **28** (18) 6138
 Structure of amorphous starch. II. Molecular interactions with water
- Yang P, Seib PA// Kansas State Univ Agr & Appl Sci, Dept Grain Sci & Ind, Manhattan, Ks 66506, USA
Cereal Chem 1995 **72** (5) 498
 Low-input wet-milling of grain sorghum for readily accessible starch and animal feed

10 STARCH-DEGRADING ENZYMES

- Cong L, Kaul R, Dissing U, Mattiasson B*// *Lund Univ, Ctr Chem, Dept Biotechnol, POB 124, S-22100 Lund, Sweden
J Biotechnol 1995 **42** (1) 75
 A model study on Eudragit and polyethyleneimine as soluble carriers of α -amylase for repeated hydrolysis of starch
- Goyal N, Sidhu GS, Chakrabarti T, Gupta JK*// *Panjab Univ, Dept Microbiol, Chandigarh 160014, India
World J Microbiol Biotechnol 1995 **11** (5) 593
 Thermostability of α -amylase produced by *Bacillus* sp E2: A thermophilic mutant
- Ilori MO, Amund OO, Omidiji O// Lagos State Univ, Dept Bot & Microbiol,

- PMB 1087, Lagos, Nigeria
World J Microbiol Biotechnol 1995 **11** (5) 595
 Purification and properties of a glucose-forming amylase of *Lactobacillus brevis*
- Okolo BN, Ezeogu LI, Mba CN// Univ Nigeria, Dept Microbiol, Nsukka, Nigeria
J Sci Food Agr 1995 **69** (1) 109
 Production of raw starch digesting amylase by *Aspergillus niger* grown on native starch sources
- Olympia M, Fukuda H, Ono H*, Kaneko Y, Takano M// *Osaka Univ, Fac Engn, Dept Biotechnol, Suita, Osaka 565, Japan
J Ferment Bioeng 1995 **80** (2) 124
 Characterization of starch-hydrolyzing lactic acid bacteria isolated from a fermented fish and rice food "burong isda", and its amylolytic enzyme
- Rodriguez H// Cuban Res Inst Sugarcane Byprod, Dept Microbiol, POB 4026, CP 11000, Havana, Cuba
J Ind Microbiol 1995 **15** (2) 112
 Colony switching in an α -amylase-producing strain of *Bacillus subtilis*
- ## 11 POLYSACCHARIDES - MICROBIAL
- Akiyoshi K, Nishikawa T, Schichibe S, Sunamoto J*// *Kyoto Univ, Grad Sch Engn, Div Synthet Chem & Biol Chem, Sakyo ku, Yoshida Hommachi, Kyoto 60601, Japan
Chem Lett 1995 (8) 707
 Stabilization of insulin upon supramolecular complexation with hydrophobized polysaccharide nanoparticle
- Bornsen KO, Mohr MD, Widmer HM// Ciba Geigy Ltd, Corp Analyt Res, CH-4002 Basel, Switzerland
Rapid Commun Mass Spectrom 1995 **9** (11) 1031
 Ion exchange and purification of carbohydrates on a Nafion® membrane as a new sample pretreatment for matrix-assisted laser desorption/ionization mass spectrometry
- Bruix M, Jimenez-Barbero J, Cronet P// CSIC, Inst Estructura Mat, E-28006 Madrid, Spain
Carbohydr Res 1995 **273** (2) 157
 Determination by NMR spectroscopy of the structure and conformational features of the enterobacterial common antigen isolated from *Escherichia coli*
- Chakrabarty PK, Mahadevan A, Raj S, Meshram MK, Gabriel DW// Univ Florida, Dept Plant Pathol, 1453 Fifield Hall, Gainesville, FL 32611, USA
Can J Microbiol 1995 **41** (8) 740
 Plasmid-borne determinants of pigmentation, exopolysaccharide production, and virulence in *Xanthomonas campestris* pv *malvacearum*
- Cruz-Guerrero A, Garcia-Pena I, Barzana E, Garcia-Garibay M, Gomez-Ruiz L*// *Univ Autonoma Metropolitana Iztapalapa, Dept Biotechnol, Apartado Postal 55-535, Mexico City 09340, DF, Mexico
J Ferment Bioeng 1995 **80** (2) 159
Kluyveromyces marxianus CDBB-L-278: A wild inulinase hyperproducing strain
- Dhami R, Harding SE*, Jones T, Hughes T, Mitchell JR, To KM// *Univ Nottingham, Natl Ctr Macromolec Hydrodynam, Sutton Bonington LE12 5RD, England
Carbohydr Polym 1995 **27** (2) 93
 Physico-chemical studies on a commercial food grade xanthan. I. Characterisation by sedimentation velocity, sedimentation equilibrium and viscometry
- Doner LW, Douds DD// USDA/ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, Pa 19118, USA
Carbohydr Res 1995 **273** (2) 225
 Purification of commercial gellan to monovalent cation salts results in acute modification of solution and gel-forming properties
- Elcin YM// Ankara Univ, Dept Chem, Ankara 06100, Turkey
Biomaterials 1995 **16** (15) 1157
 Encapsulation of urease enzyme in xanthan-alginate spheres
- Erbing B, Jansson PE, Widmalm G*, Nimmich W// *Univ Stockholm, Dept Organ Chem, Arrhenius Lab, S-10691 Stockholm, Sweden
Carbohydr Res 1995 **273** (2) 197
 Structure of the capsular polysaccharide from the *Klebsiella* K8 reference strain 1015
- Gordon M, Guralnik M, Kaneko Y, Mimura T, Goodgame J, Lang W// Aji Pharma USA Inc, Glenpointe Ctr W, Teaneck, NJ 07666, USA
J Med 1995 **26** (3-4) 97
 Further clinical studies of curdlan sulfate (CRDS): An anti-HIV agent
- Grigoriantz AO, Elinov NP// Chem Pharmaceut Univ, St Petersburg, Russia
Mikol Fitopatol 1994 **28** (6) 28
 Influence of medium composition on growth and biosynthesis of exoglycan by *Cryptococcus luteolus* (Saito) Skinner strain 228
- Holmberg L, Lindberg B*, Lindqvist B// *Univ Stockholm, Arrhenius Lab, Dept Organ Chem, S-10691 Stockholm, Sweden
Carbohydr Res 1995 **272** (2) 203
 The reaction between epichlorohydrin and polysaccharides: Structural elements in a cross-linked dextran, Sephadex® G-25
- Hoq MM, Deckwer WD// Univ Dhaka, Dept Microbiol, Dhaka 1000, Bangladesh
Appl Microbiol Biotechnol 1995 **43** (4) 604
 Cellulase free xylanase by thermophilic fungi: A comparison of xylanase production by two *Thermomyces lanuginosus* strains
- Hovgaard L, Brondsted H// Royal Danish Sch Pharm, Dept Pharmaceut, Univ Pk 2, DK-2100 Copenhagen O, Denmark
J Control Release 1995 **36** (1-2) 159
 Dextran hydrogels for colon-specific drug delivery
- Kaji E, Lichtenthaler FW, Osa Y, Takahashi K, Zen S// Kitasato Univ, Sch Pharmaceut Sci, Minato ku, Tokyo 108, Japan
Bull Chem Soc Jpn 1995 **68** (8) 2401
 A practical synthesis of mannosaminyl- β (1 $\rightarrow$ 4)-glucosyl- α (1 $\rightarrow$ 2)-rhamnose the trisaccharide repeating unit of a *Streptococcus pneumoniae* capsular polysaccharide
- Kjellberg A, Widmalm G*, Jansson PE, Nimmich W// *Univ Stockholm, Arrhenius Lab, Dept Organ Chem, S-10691 Stockholm, Sweden
Carbohydr Res 1995 **273** (1) 53
 Structural studies of the capsular polysaccharide from *Klebsiella* type 7
- Knirel YA, Paredes L, Jansson PE*, Weintraub A, Widmalm G, Albert MJ// *Karolinska Inst, Huddinge Univ Hosp, Clin Res Ctr, Novum, S-14186 Huddinge, Sweden
Eur J Biochem 1995 **232** (2) 391
 Structure of the capsular polysaccharide of *Vibrio cholerae* O139 synonym Bengal containing D-galactose 4,6-cyclophosphate
- Kurisawa M, Terano M, Yui N// Japan Adv Inst Sci & Technol, Sch Mat Sci, 15 Asahidai, Tatsunokuchi, Ishikawa 92312, Japan
Macromol Rapid Commun 1995 **16** (9) 663
 Double stimuli-responsive degradable hydrogels for drug delivery: Interpenetrating polymer networks composed of oligopeptide-terminated poly(ethylene glycol) and dextran
- Leal JA, Jimenez-Barbero J, Gomez-Miranda B, Parra E, Prieto A, Bernabe M*// *CSIC, Inst Quim Organ, Carbohidratos Grp, Juan de la Cierva 3, E-28006 Madrid, Spain
Carbohydr Res 1995 **273** (2) 255
 Structural investigation of cell-wall polysaccharides from *Neosartorya*: Relationships with their putative anamorphs of *Aspergillus*
- Leite M, Eremeeva T, Treimanis A, Egle V, Bykova T, Purina L, Viesturs U// Inst Wood Chem, 27 Dzerbenes Str, Riga 1006, Latvia
Acta Biotechnol 1995 **15** (2) 199
 The effects of xylanase type enzymes on the different layers of birch wood Organosolv pulp fibre walls
- Lorimer JP, Mason TJ, Cuthbert TC, Brookfield EA// Coventry Univ, Sch Nat Sci, Coventry CV5 1FB, England
Ultrason Sonochemistry 1994 **2** (1) S55
 Effect of ultrasound on the degradation of aqueous native dextran
- McIntire TM, Penner RM, Brant DA*// *Univ Calif Irvine, Dept Chem, Irvine, Ca 92717, USA
Macromolecules 1995 **28** (18) 6375
 Observations of a circular, triple-helical polysaccharide using noncontact atomic force microscopy
- Miyazaki T, Kohno S, Mitsutake K, Maesaki S, Tanaka K, Hara K// Nagasaki Univ, Sch Med, Dept Internal Med 2, 1-7-1 Sakamoto, Nagasaki 852, Japan
J Clin Lab Anal 1995 **9** (5) 334
 (1 $\rightarrow$ 3)- β -D-Glucan in culture fluid of fungi activates factor G, a *Limulus* coagulation factor
- Nagaoka M, Shibata H, Kimura I, Hashimoto S, Kimura K, Sawada H, Yokokura T// Yakult Cent Inst Microbiol Res, Kunitachi, Tokyo 186, Japan
Carbohydr Res 1995 **274** 245
 Structural studies on a cell wall polysaccharide from *Bifidobacterium longum* YIT4028
- Nakamura T, Ogata Y, Shitara A, Nakamura A, Ohta K*// *Miyazaki Univ, Fac Agr, Dept Biol Resource Sci, 1-1 Gakuen Kibanadai Nishi, Miyazaki 88921, Japan
J Ferment Bioeng 1995 **80** (2) 164
 Continuous production of fructose syrups from inulin by immobilized inulinase from *Aspergillus niger* mutant 817
- Neyts J, Reynders D, Letourneur D, Jozefonvicz J, Schols D, Este J, Andrei G, McKenna P, Witvrouw M, Ikeda S, Clement J, De Clercq E// Catholic Univ Leuven, Rega Inst Med Res, Minderbroedersstr 10, B-3000 Louvain, Belgium
Biochem Pharmacol 1995 **50** (6) 743
 Differential antiviral activity of derivatized dextrans

- Nitschke M, Thomas RWSP// Univ Fed Rio Grande Sul, Fac Agron, Dept Solos, Micobiol Lab, Avda Gento Goncalves 7712, Cx Postal 776, BR-90001-970 Porto Alegre, RS, Brazil
World J Microbiol Biotechnol 1995 **11** (5) 502
 Xanthan gum production by wild-type isolates of *Xanthomonas campestris*
- Ochi Y, Takeuchi T, Murata K, Kawabata Y, Kusakabe I*// *Univ Tsukuba, Inst Appl Biochem, 1-1-1 Tennodai, Tsukuba, Ibaraki 305, Japan
Biosci Biotechnol Biochem 1995 **59** (8) 1560
 A simple method for preparation of poly-mannuronate using poly-guluronate lyase
- Ohno N, Miura NN, Chiba N, Adachi Y, Yadomae T*// *Tokyo Univ Pharm & Life Sci, Sch Pharm, Immunopharmacol Microbial Prod Lab, Hachioji, Tokyo 19203, Japan
Biol Pharm Bull 1995 **18** (9) 1242
 Comparison of the immunopharmacological activities of triple and single helical schizophyllan in mice
- Ohtani K, Yasuda S, Hiruta O, Uotani K, Tatsuta K, Misaki A// Osaka City Univ, Fac Human Life Sci, Sumiyoshi ku, 3-3-138 Sugimoto, Osaka 558, Japan
Biosci Biotechnol Biochem 1995 **59** (9) 1628
 Characterization of an extracellular polysaccharide elaborated by TX-1, a new strain of *Beijerinckia indica*
- Pazur JH, Miskiel FJ, Marchetti NT// Penn State Univ, Paul M Althouse Lab, Dept Biochem & Molec Biol, 104 Davey Lab, University Park, Pa 16802, USA
Carbohydr Polym 1995 **27** (2) 85
 Properties and applications of anti-xanthan antibodies
- Pereswetoff-Morath L, Edman P// Uppsala Univ, Dept Pharm, Box 580, S-75123 Uppsala, Sweden
Int J Pharm 1995 **124** (1) 37
 Dextran microspheres as a potential nasal drug delivery system for insulin: *In vitro* and *in vivo* properties
- Rajeshwari KV, Prakash G, Ghosh P*// *Birla Inst Sci Res, Ctr Sci & Technol, Statue Circle, Jaipur, Rajasthan, India
Lett Appl Microbiol 1995 **21** (3) 173
 Improved process for xanthan production using modified media and intermittent feeding strategy
- Roberts IS// Dept Microbiol & Immunol, Med Sci Bldg, POB 138, Univ Rd, Leicester LE1 9HN, England
Microbiology-UK 1995 **141** (9) 2023
 Bacterial polysaccharides in sickness and in health
- Sakurai T, Ohno N, Suzuki I, Yadomae T*// *Tokyo Univ Pharm & Life Sci, Sch Pharm, Immunopharmacol Microbial Prod Lab, Horinouchi 1432-1, Tokyo 19203, Japan
Immunopharmacology 1995 **30** (2) 157
 Effect of soluble fungal (1→3)-β-D-glucan obtained from *Sclerotinia sclerotiorum* on alveolar macrophage activation
- Shabtai Y, Mukmenev I// Ben Gurion Univ Negev, Program Biotechnol, POB 653, IL-84105 Beer Sheva, Israel
Appl Microbiol Biotechnol 1995 **43** (4) 595
 Enhanced production of pigment-free pullulan by a morphogenetically arrested *Aureobasidium pullulans* (ATCC 42023) in a two-stage fermentation with shift from soy bean oil to sucrose
- Smith ARW, Rastall RA, Blake P, Hignett RC// Univ Greenwich, Sch Biol & Chem Sci, London SE18 6PF, England
Microbios 1995 **83** (334) 27
 Gluco-oligosaccharide production by a strain of *Erwinia amylovora*
- Steinmetz I, Rohde M, Brenneke B// Hannover Med Sch, Inst Med Microbiol, Konstanty Gutschow Str 8, D-30625 Hannover, Germany
Infec Immunity 1995 **63** (10) 3959
 Purification and characterization of an exopolysaccharide of *Burkholderia (Pseudomonas) pseudomallei*
- Thomas H, Maillet F, Letourneur D, Jozefonvicz J, Kazatchkine MD*// *INSERM, U28, F-75014 Paris, France
Biomaterials 1995 **16** (15) 1163
 Effect of substituted dextran derivative on complement activation *in vivo*
- Van Dijk-Wolthuis WNE, Franssen O, Talsma H, Van Steenberghe MJ, Van den Bosch JJK, Hennink WE// Univ Utrecht, Utrecht Inst Drug Explorat, Res Sch Groningen, Utrecht Inst Pharmaceut Sci, 3508 TB Utrecht, The Netherlands
Macromolecules 1995 **28** (18) 6317
 Synthesis, characterization, and polymerization of glycidyl methacrylate derivatized dextran
- Vermani MV, Kelkar SM, Kamat MY*// *Univ Bombay, Dept Chem Technol, Div Food & Fermentat Technol, Bombay 400019, Maharashtra, India
Biotechnol Lett 1995 **17** (9) 917
 Novel polysaccharide produced by *Azotobacter vinelandii* isolated from plant rhizosphere
- Yurlova NA, Mokrousov IV, De Hoog GS*// *Cent Bur Schimmelcultures, POB 273, 3740 AG Baarn, The Netherlands
Anton Leeuwenhoek Int J Gen Microbiol 1995 **68** (1) 57
 Intraspecific variability and exopolysaccharide production in *Aureobasidium pullulans*
- Ziser L, Setyawati I, Withers SG*// *Univ British Columbia, Dept Chem, 2036 Main Mall, Vancouver, Brit Columbia, Canada V6T 1Z1
Carbohydr Res 1995 **274** 137
 Syntheses and testing of substrates and mechanism-based inactivators for xylanases
- Zubkov VA, Nazarenko EL*, Gorshkova RP, Ivanova EP, Shashkov AS, Knirel YA, Paramonov NA, Ovodov YS// *Russian Acad Sci, Pacific Inst Bioorgan Chem, Far East Branch, Vladivostok 690022, Russia
Carbohydr Res 1995 **275** (1) 147
 Structure of the capsular polysaccharide from *Alteromonas sp* CMM 155

12 POLYSACCHARIDES - PLANT

- Cassidy MB, Leung KT, Lee H*, Trevors JT// *Univ Guelph, Dept Environm Biol, Guelph, Ontario, Canada N1G 2W1
J Microbiol Meth 1995 **23** (3) 281
 Survival of *lac-lux* marked *Pseudomonas aeruginosa* UG2Lr cells encapsulated in κ-carrageenan and alginate
- Cui W, Eskin NAM, Biliaderis CG// Univ Manitoba, Dept Food Sci, Winnipeg, Manitoba, Canada R3T 2N2
Carbohydr Polym 1995 **27** (2) 117
 NMR characterization of a water-soluble 1,4-linked β-D-glucan having ether groups from yellow mustard (*Sinapis alba* L) mucilage
- Cui W, Eskin NAM, Biliaderis CG, Mazza G// Address as above.
Carbohydr Polym 1995 **27** (2) 123
 Synergistic interactions between yellow mustard polysaccharides and galactomannans
- Flari V, Matoub M, Rouland C*// *Univ Paris 12, Lab Ecophysiol Invertebres, F-94010 Creteil, France
Carbohydr Res 1995 **275** (1) 207
 Purification and characterization of a β-mannanose from the digestive tract of the edible snail *Helix lucorum* L.
- Frollini E, Reed WF, Milas M, Rinaudo M// Univ Sao Paulo, Dept Fis Quim, BR-13560-970 Sao Carlos, SP, Brazil
Carbohydr Polym 1995 **27** (2) 129
 Polyelectrolytes from polysaccharides: Selective oxidation of guar gum - A revisited reaction
- Izawa M, Takashio M, Koshino S// Sapporo Breweries Ltd, Brewing Res Labs, 10 Okatohme, Shizuoka 425, Japan
J Inst Brew 1995 **101** (5) 371
 Several new factors influencing the measurement of β-glucan content using calcofluor flow-injection analysis method
- Jimenez A, Guillen R, Sanchez C, Fernandez-Bolanos J, Heredia A*// *CSIC, Inst Grasa, Apartado 1078, E-41012 Seville, Spain
J Agr Food Chem 1995 **43** (8) 2240
 Changes in texture and cell wall polysaccharides of olive fruit during "Spanish green olive" processing
- King GK, Yates KM*, Greenlee PG, Pierce KR, Ford CR, McAnally BH, Tizard IR// *Carrington Labs Inc, 1300 East Rochelle Blvd, Irving, Tx 75062, USA
J Amer Anim Hosp Assn 1995 **31** (5) 439
 The effect of acemannan immunostimulant in combination with surgery and radiation therapy on spontaneous canine and feline fibrosarcomas
- Kiyohara H, Matsumoto T, Takemoto N, Kawamura H, Komatsu Y, Yamada H*// *Kitasato Inst, Oriental Med Res Ctr, Minato ku, 5-9-1 Shirokane, Tokyo 108, Japan
Planta Med 1995 **61** (5) 429
 Effect of oral administration of a pectic polysaccharide fraction from a kampo (Japanese herbal) medicine "Juzen-Taiho-To" on antibody response of mice
- Knuckles BE, Chiu MCM// USDA ARS, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA
J Food Sci 1995 **60** (5) 1070
 β-Glucan enrichment of barley fractions by air classification and sieving
- Kolender AA, Matulewicz MC, Cerezo AS*// *Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Quim Organ, Pabellon 2, Ciudad Univ, RA-1428 Buenos Aires, DF, Argentina
Carbohydr Res 1995 **273** (2) 179
 Structural analysis of antiviral sulfated α-D-(1→3)-linked mannans
- Leon R, Galvan F*// *Univ Sevilla, Fac Quim, Dept Bioquim Vegetal & Biol Molec, Apartado 553, E-41080 Seville, Spain

- J Biotechnol* 1995 **42** (1) 61
Glycerol photoproduction by free and Ca-alginate entrapped cells of *Chlamydomonas reinhardtii*
- Murayama A, Ichikawa Y, Kawabata A*// *Kawamura Coll, Toshima ku, Tokyo 171, Japan
- J Texture Stud* 1995 **26** (3) 239
Sensory and rheological properties of κ -carrageenan gels mixed with locust bean gum, tara gum or guar gum
- Otoguro C, Otake S, Kaneko K, Amano Y// Yamanashi Ind Technol Ctr, 2094 Otsu cho, Kofu, Yamanashi 400, Japan
- J Jpn Soc Food Sci Technol* 1995 **42** (9) 692
The relationship between the constituents of cell wall polysaccharides and hardness of brined ume fruit
- Patier P, Potin P, Rochas C, Kloareg B, Yvin JC, Lienart Y// Univ Grenoble 1, CNRS, BP 53X, Ctr Rech Macromolec Vegetales, F-38041 Grenoble, France
- Plant Sci* 1995 **110** (1) 27
Free or silica-bound oligokappa-carrageenans elicit laminarinase activity in *Rubus* cells and protoplasts
- Poncelet D, De Smet BP, Beaulieu C, Huguet ML, Fournier A, Neufeld RJ// INPL, ENSAIA, 2 Ave Foret Haye, F-54505 Vandoeuvre les Nancy, France
- Appl Microbiol Biotechnol* 1995 **43** (4) 644
Production of alginate beads by emulsification internal gelation. II. Physico-chemistry
- Ray B, Lahaye M*// *INRA, BP 1627, Lab Biochim & Technol Glucides, F-44316 Nantes 03, France
- Carbohydr Res* 1995 **274** 251
Cell-wall polysaccharides from the marine green alga *Ulva "rigida"* (Ulvales, Chlorophyta). Extraction and chemical composition
- Ray B, Lahaye M*// *Address as above.
- Carbohydr Res* 1995 **274** 313
Cell-wall polysaccharides from the marine green alga *Ulva "rigida"* (Ulvales, Chlorophyta). Chemical structure of ulvan
- Robles MD, Mates JM*, Niell FX// *Univ Malaga, Fac Sci, Dept Ecol, E-29071 Malaga, Spain
- J Liq Chromatogr* 1995 **18** (16) 3175
Determination of the degree of polymerization of agar-type polysaccharides by a high-performance liquid chromatography method
- Saulnier L, Vigouroux J, Thibault JF// Inst Natl Rech Agron, Lab Biochim & Technol Glucides, BP 1627, F-44316 Nantes, France
- Carbohydr Res* 1995 **272** (2) 241
Isolation and partial characterization of feruloylated oligosaccharides from maize bran
- Swain SM, Parker B, Wellstein A, Lippman ME, Steakley C, De Lap R// 5230 Baltimore Ave, Bethesda, Md 20816, USA
- Invest New Drug* 1995 **13** (1) 55
Phase I trial of pentosan polysulfate
- Tatham JP, Carrington S, Odell JA, Gamboa AC, Muller AJ, Saez AE*// *POBA Int, A101, POB 025255, Miami, FL 33102, USA
- J Rheol* 1995 **39** (5) 961
Extensional behavior of hydroxypropyl guar solutions: Optical rheometry in opposed jets and flow through porous media
- Thomas A, Gilson CD*, Ahmed T// *Univ Glamorgan, Dept Appl Sci, Pontypridd CF37 1DL, Mid Glam, Wales
- J Chem Technol Biotechnol* 1995 **64** (1) 73
Gelling of alginate fibres
- Torto N, Buttler T, Gorton L, Marko-Varga G, Stalbrand H, Tjerneld F// Lund Univ, Dept Analyt Chem, POB 124, S-22100 Lund, Sweden
- Anal Chim Acta* 1995 **313** (1-2) 15
Monitoring of enzymatic hydrolysis of ivory nut mannan using on-line microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection
- Truong VD, Walter WM, Giesbrecht FG// Nth Carolina State Univ, Dept Food Sci, Nth Carolina Agr Res Serv, Raleigh, NC 27695, USA
- J Food Sci* 1995 **60** (5) 1054
Texturization of sweetpotato puree with alginate: Effects of tetrasodium pyrophosphate and calcium sulfate
- Viebkke C, Borgstrom J, Piculell L// Lund Univ, Chem Ctr, Phys Chem 1, S-22100 Lund, Sweden
- Carbohydr Polym* 1995 **27** (2) 145
Characterisation of κ - and λ -carrageenan coils and helices by MALLS/GPC
- Wang SX, Wen YY, Hu CX// Acad Sinica, Inst Bot, Beijing 100044, Peoples Rep China
- Phytother Res* 1995 **9** (6) 448
Immunoreactivities of the polysaccharides from *Morus alba*, *Chlamydomonas mexicana* and *Poria cocos*
- Williams PA, Langdon MJ// NE Wales Inst, Ctr Water Sol Polymers, Plas Coch, Mold Rd, Wrexham LL11 2AW, Wales
- Chromatogr Anal* 1995 (39) 5
Characterisation of gum arabic by gel permeation chromatography

13 POLYSACCHARIDES - OTHER

- Bjorling M, Herslof-Bjorling A, Stilbs P// Royal Inst Technol, Dept Chem, S-10044 Stockholm, Sweden
- Macromolecules* 1995 **28** (20) 6970
An NMR self-diffusion study of the interaction between sodium hyaluronate and tetradecyltrimethylammonium bromide
- Camilleri P, Harland GB, Okafo G// SmithKline Beecham Pharmaceut, Welwyn Garden City AL6 9AR, Herts, England
- Anal Biochem* 1995 **230** (1) 115
High resolution and rapid analysis of branched oligosaccharides by capillary electrophoresis
- Caram-Lelham N, Sundelof LO*, Andersson T// *Univ Uppsala, Ctr Biomed, Box 574, S-75123 Uppsala, Sweden
- Carbohydr Res* 1995 **273** (1) 71
Preparative separation of oligosaccharides from κ -carrageenan, sodium hyaluronate, and dextran by Superdex™ 30 prep grade
- Furuike T, Nishi N, Tokura S, Nishimura S*// *Hokkaido Univ, Grad Sch Environm Earth Sci, Div Ecol Sci, Sapporo, Hokkaido 060, Japan
- Chem Lett* 1995 **9** 823
Synthesis of novel clustered glycopolymers containing triantennary glycosides of N-acetylglucosamine
- Geciova R, Flaibani A, Delben F, Liut G, Urbani R, Cesaro A*// *Univ Trieste, Dept Biochem Biophys & Macromolec Chem, I-34127 Trieste, Italy
- Macromol Chem Phys* 1995 **196** (9) 2891
Physico-chemical properties of hyaluronan and its hydrophobic derivatives: A calorimetric and viscometric study
- Gervasi GB, Catalani R, Bartoli C, Carpita G, Farina C, Gelso E// Baldacci Res Labs SpA, Via S Michele Scalzi 73, Pisa, Italy
- Pharmacol Res* 1995 **31** (6) 331
A comparison of the activity of a heparan sulphate of defined molecular weight range (7500-15000 Da) with heparin and dermatan sulphate
- Gray E, Heath AB, Mulloy B, Spieser JM, Barrowcliffe TW// Natl Inst Biol Stand & Controls, Div Hematol, Blanche Lane, Sth Mimms, Potters Bar EN6 3Q6, Herts, England
- Thromb Haemost* 1995 **74** (3) 893
A collaborative study of proposed European Pharmacopoeia reference preparations of low molecular mass heparin
- Kanno KI, Kinoshita W, Kobayashi K, Hatanaka K*// *Tokyo Inst Technol, Dept Biomolec Engn, Midori ku, Nagatsuta, Yokohama, Kanagawa 226, Japan
- Polym J* 1995 **27** (9) 911
Synthesis of stereoregular polysaccharide derivatives carrying 2,3-di-O-alkyl chains
- Kanombirira S, Kailasapathy K// Univ Western Sydney, Ctr Adv Food Res, Hawkesbury, NSW 2753, Australia
- Milchwissenschaft* 1995 **50** (8) 452
Effects of interactions of carrageenan and gellan gum on yields, textural and sensory attributes of Cheddar cheese
- Koto S, Haigoh H, Shichi S, Hirooka M, Nakamura T, Maru C, Fujita M, Goto A, Sato T, Okada M, Zen S, Yago K, Tomonaga F// Kitasato Univ, Sch Pharmaceut Sci, Minato ku, 5-9-1 Shirokane, Tokyo 108, Japan
- Bull Chem Soc Jpn* 1995 **68** (8) 2331
Synthesis of glucose-containing linear oligosaccharides having $\alpha(1\rightarrow4)$ and $\alpha(1\rightarrow6)$ linkages using stereoselective dehydrative glycosylation
- Nikolaev AV, Chudek JA, Ferguson MAJ// Russian Acad Sci, Inst Food Subst, Vavilova St 28, Moscow 117813, Russia
- Carbohydr Res* 1995 **272** (2) 179
The chemical synthesis of *Leishmania donovani* phosphoglycan via polycondensation of a glycobiosyl hydrogenphosphonate monomer
- Portenlanger G, Heusinger H// Tech Univ Munich, Inst Radiochem, Walther Meissner Str 3, D-85747 Garching, Germany
- Ultrason Sonochemistry* 1994 **1** (2) S125
Polymer formation from aqueous solutions of α -D-glucose by ultrasound and γ -rays
- White SJ, Wright CG*, Robinson KS, Meyerhoff WL// *Univ Texas, SW Med Ctr, Dept Otolaryngol, 5323 Harry Hines Blvd, Dallas, Tx 75235, USA
- Amer J Otolaryngol* 1995 **16** (5) 312
Effect of topical hyaluronic acid on experimental cholesteatoma
- Zierer MS, Vieira RP, Mulloy B, Mourao PAS*// *Fed Univ Rio de Janeiro, Inst Ciencias Biomed, Dept Bioquim, Caixa Postal 68041, BR-21944-590 Rio de Janeiro, Brazil
- Carbohydr Res* 1995 **274** 233
A novel acidic glycogen extracted from the marine sponge *Aplysina fulva* (Porifera-Demospongiae)