

Bibliography of carbohydrate polymers

(8 weeks journals. Search completed at 3rd. Sept. 2003)

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As a service to subscribers of the journal, this bibliography contains 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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Jorgensen H, Kutter JP, Olsson L*// *Address as above

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Cho CW, Lee DY, Kim CW// *Korea Univ, Grad Sch Life Sci & Biotechnol, 1,5-ka, Anam-dong, Sungbuk-ku, Seoul 136-701, South Korea

Carbohydr Polym 2003 **54** (1) 21

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Duan JY, Wang XS, Dong Q, Fang JN*, Li XY// *Chinese Acad Sci, Shanghai Inst Biol Sci, Shanghai Inst Mat Med, Dept Biotechnol, 294 Tai Yuan Rd, CN-200031 Shanghai, Peoples Rep China

Carbohydr Res 2003 **338** (12) 1291

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from the leaves of *Diospyros kaki*

Kuuvu T, Lantto R, Reinikainen T, Buchert J, Autio K// *VTT Biotechnol, PO Box 1500, FI-02044 VTT, Espoo, Finland

Food Hydrocolloid 2003 **17** (5) 679

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Marudova M, Jilov N// Paisij Hilendarski Univ, 24 Tzar Assen Str, BG-4000 Plovdiv, Bulgaria

J Food Eng 2003 **59** (2-3) 177

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Pereira M, Wu YT, Venancio A, Teixeira J// *Univ Minho, IBQF, Ctr Engn Biol, PT-4710-057 Braga, Portugal

Biochem Eng J 2003 **15** (2) 131

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Sahari MA, Akbarian A, Hamed MM// Tarbiat Modarres Univ, Coll Agr, Dept Food Technol, PO Box 14115, IR-111 Tehran, Iran

Food Chem 2003 **83** (1) 43

Effect of variety and acid washing method on extraction yield and quality of sunflower head pectin

Synysya A, Copikova J, Matejka P, Machovic V// Fac Chem Engn, Dept Carbohydrate Chem & Technol, Technicka 5, CZ-16628 Prague 6, Czech Republic

Carbohydr Polym 2003 **54** (1) 97

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Thomas M, Guillemin F, Guillon F, Thibault JF// *Inst Nat Recherche Agron, Unite Recherche Polysaccharides Leurs Organisation & Interactions, BP 71627, rue Gerardi, FR-44316 Nantes 3, France

Carbohydr Polym 2003 **53** (4) 361

Pectins in the fruits of Japanese quince (*Chaenomeles japonica*)

Walkenstrom P, Kidman S, Hermansson AM*, Rasmussen PB, Hoegh L// *Swedish Inst Food & Biotechnol - SIK, PO Box 5401, SE-402 29 Goteborg, Sweden

Food Hydrocolloid 2003 **17** (5) 593

Microstructure and rheological behaviour of alginate/pectin mixed gels

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Bengtsson M, Koch K, Gatenholm P// *Chalmers Univ Technol, Dept Materials & Surface Chem, Biopolym Technol, SE-412-96 Goteborg, Sweden

Carbohydr Polym 2003 **54** (1) 1

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Blanco M, Bano RG// Univ Autonoma Barcelona, Fac Ciencies, Dept Quim, Unitat Quim Analit, ES-08193 Barcelona, Spain

Anal Lett 2003 **36** (8) 1607

Determination of sugars in starch hydrolysates by IR spectroscopy

Chen Z, Schols HA, Voragen AGJ// *Univ Wageningen & Res Ctr, Dept Agrotechnol & Food Sci, Food Chem Lab, Bomenweg 2, NL-6703 HD Wageningen, The Netherlands

J Food Sci 2003 **68** (5) 1584

Starch granule size strongly determines starch noodle processing and noodle quality

Chiotelli E, Le Meste M// *Ecole Nat Supérieure Biol Appliquee Nutr & Aliment, Lab Ingn Mol & Sensorielle Aliment, 1 Esplanade Erasme, FR-21000 Dijon, France

Food Hydrocolloid 2003 **17** (5) 629

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Del Nobile MA, Martoriello T, Mocci G, La Notte E// Univ Foggia, Ist Prod & Preparazione Alimentari, Via Napoli 25, IT-71100 Foggia, Italy

J Food Eng 2003 **59** (2-3) 123

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Delville J, Joly C*, Dole P, Bliard C// *UMR URCA/INRA FARE, Equipe Emballage, CPCB Moulin de la Housse BP 1039, FR-51687 Reims 2, France

Carbohydr Polym 2003 **53** (4) 373

Influence of photocrosslinking on the retrogradation of wheat starch based films

Evans A, McNish N, Thompson DB// *Penn State Univ, Dept Food Sci, Borland Lab 111, University Park, Pa 16802, USA

Starch 2003 **55** (6) 250

Polarization colors of lightly iodine-stained maize starches for amylose-extender and related genotypes in the W64A inbred line

Ganjyal GM, Hanna MA, Jones DD// Univ Nebraska, Ind Agric Prod Ctr, 208 LW Chase Hall, Lincoln, Ne 68583, USA

J Food Sci 2003 **68** (4) 1384

Modeling selected properties of extruded waxy maize cross-linked starches

with neural networks

Hofman LC, Mellett FD// Univ Stellenbosch, Dept Anim Sci, Private Bag 11, ZA-7602 Matieland, Rep Sth Africa
Meat Sci 2003 **65** (2) 869

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Jangchud K, Phimolsiripol Y, Haruthaithanasan V// Kasetsart Univ, Fac Agro-Ind, Dept Prod Dev, TH-10900 Bangkok, Thailand
Starch 2003 **55** (6) 258

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Kenmochi T, Asano T, Jingu K, Matsui Y, Maruyama M, Akutsu N, Miyauchi H, Ochiai T// Sakura Natl Hosp, Dept Surg, 2-36-2 Ebaradai, Sakura, Chiba 285 8765, Japan
J Surg Res 2003 **111** (1) 16

Effectiveness of hydroxyethyl starch (HES) on purification of pancreatic islets
Lin JH, Lee SY, Chang YH*// *Providence Univ, Dept Food & Nutr, Shalu 43301, Taiwan

Carbohydr Polym 2003 **53** (4) 475

Effect of acid-alcohol treatment on the molecular structure and physicochemical properties of maize and potato starches

Mandala IG, Palogou ED// Agr Univ Athens, Dept Food Sci & Technol, Lab Engn Proc & Preservat Foods, 75 Iera Odos, GR-11855 Athens, Greece
Int J Food Prop 2003 **6** (2) 311

Effect of preparation conditions and starch/xanthan concentration on gelation process of potato starch systems

Nayouf M, Loisel C*, Doublier JL// *Ecole Natl Ingn Tech Ind Agricoles & Alimentaire, CNRS, BP 82225, rue Geraudiere, FR-44322 Nantes 3, France
J Food Eng 2003 **59** (2-3) 209

Effect of thermomechanical treatment on the rheological properties of cross-linked waxy corn starch

Patindol J, Wang YJ*// *Univ Arkansas, Dept Food Sci, Fayetteville, Ar 72704, USA
J Agric Food Chem 2003 **51** (9) 2777

Fine structures and physicochemical properties of starches from chalky and translucent rice kernels

Paulsen MR, Mbuvi SW, Haken AE, Ye B, Stewart RK// Univ Illinois, Dept Agr Engr, Agr Engr Sci Bldg, 1304 West Penn Ave, Urbana, Il 61801, USA
Appl Eng Agric 2003 **19** (2) 211

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Richter A, Wagenknecht W// Halterner Str 68, DE-45657 Recklinghausen, Germany
Carbohydr Res 2003 **338** (13) 1397

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Shimizu N, Okadome H, Yanagisawa T, Andren H, Thente K, Kimura T, Ohtsubo K// Univ Tsukuba, Inst Agr & Forest Engr, 1-1-1 Tennoudai, Tsukuba, Ibaraki 305 8572, Japan
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Siswoyo TA, Morita N*// *Univ Osaka Prefecture, Grad Sch Agr & Biol Sci, Div Appl Biol Chem, Food Chem Lab, 1-1 Gakuen cho, Sakai, Osaka 599 8531, Japan
Food Res Int 2003 **36** (7) 729

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Smits ALM, Kruiskamp PH, Van Soest JGG, Vliegthart JFG// Utrecht Univ, Bijvoet Ctr Biomol Res, PO Box 80075, NL-3508 TB Utrecht, The Netherlands
Carbohydr Polym 2003 **53** (4) 409

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Thygesen LG, Blennow A, Engelsen SB// Tech Univ Denmark, Dept Civil Engr, Bldg 118, DK-2800 Lyngby, Kgs, Denmark
Starch 2003 **55** (6) 241

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Van Ruth SM, King C// Univ Coll Cork, Dept Food Sci Food Technol & Nutr, Nutr Sci, Western Rd, Cork, Rep Ireland
Flavour Fragr J 2003 **18** (5) 407

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Vandeputte GE, Vermeylen R, Geeroms J, Delcour JA// Katholieke Univ Leuven, Food Chem Lab, Kasteelpk Arenberg 20, BE-3001 Louvain, Belgium

J Cereal Sci 2003 **38** (1) 43

Rice starches. I. Structural aspects provide insight into crystallinity characteristics and gelatinisation behaviour of granular starch

Vandeputte GE, Derycke V, Geeroms J, Delcour JA// Address as above

J Cereal Sci 2003 **38** (1) 53

Rice starches. II. Structural aspects provide insight into swelling and pasting properties

Yoneya T, Ishibashi K*, Hironaka K, Yamamoto K// *Obihiro Univ Agr & Vet Med, Lab Food Sci & Technol, Obihiro 080-8555, Japan
Carbohydr Polym 2003 **53** (4) 447

Influence of cross-linked potato starch treated with POCl₃ on DSC, rheological properties and granule size

Zhang GY, Hamaker BR*// *Purdue Univ, Dept Food Sci, 745 Agr Mall Dr, West Lafayette, In 47907, USA
J Agric Food Chem 2003 **51** (9) 2797

A three component interaction among starch, protein, and free fatty acids revealed by pasting profiles

Zhang GY, Maladen MD, Hamaker BR*// *Address as above

J Agric Food Chem 2003 **51** (9) 2801

Detection of a novel three component complex consisting of starch, protein, and free fatty acids

Zhang XM, Shi CH, Wu JG, Hisamitsu H, Katsura T, Feng SY, Bao GL, Ye SH// Zhejiang Acad Agr Sci, Crop Res & Atom Energy Utilizat Inst, CN-310021 Hangzhou, Peoples Rep China
Starch 2003 **55** (6) 265

Analysis of variations in the amylose content of grains located at different positions in the rice panicle and the effect of milling

Zhu Z// Sthn Yangtze Univ, Coll Textiles & Garments, Nat Test Ctr Warp Sizes, CN-214063 Wuxi, Peoples Rep China
Carbohydr Polym 2003 **54** (1) 115

Starch mono-phosphorylation for enhancing the stability of starch/PVA blend pastes for warp sizing

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Aquino ACMM, Jorge JA, Terenzi HF, Polizeli MLTM*// *Univ Sao Paulo, Fac Filosofia Ciencias & Letras, Dept Biol, Avda Bandeirantes 3900, BR-14040-901 Ribeirao Preto, SP, Brazil

Appl Microbiol Biotechnol 2003 **61** (4) 323

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Baysal Z, Uyar F, Aytekin C// Dicle Univ, Fac Sci-Art, Dept Chem, Diyarbakir, Turkey
Process Biochem 2003 **38** (12) 1665

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Mar SS, Mori H*, Lee JH, Fukuda K, Saburi W, Fukuhara A, Okuyama M, Chiba S, Kimura A// *Hokkaido Univ, Grad Sch Agr, Div Appl Biosci, Sapporo, Hokkaido 060 858, Japan
Biosci Biotechnol Biochem 2003 **67** (5) 1080

Purification, characterization, and sequence analysis of two α -amylase isoforms from azuki bean, *Vigna angularis*, showing different affinity towards β -cyclodextrin sepharose

Nirmala M, Muralikrishna G*// *Indiana-Purdue Univ, Dept Biochem & Mol Biol, Indianapolis, USA
Carbohydr Polym 2003 **54** (1) 43

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Roy I, Gupta MN*// *Indian Inst Technol, Dept Chem, IN-110016 New Delhi, India
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Yao Y, Zhang JM, Ding XL// Penn State Univ, Huck Inst Life Sci, Wartik Lab 302, University Park, Pa 16802, USA
J Agric Food Chem 2003 **51** (14) 4066

Partial β -amylolysis retards starch retrogradation in rice products

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Benin AL, O'Brien KL, Watt JP, Reid R, Zell ER, Katz S, Donaldson C, Parkinson A, Schuchat A, Santosham M, Whitney CG*// *Ctr Dis Control & Prevent, Mailstop C-23, 1600 Clifton Rd, Atlanta, Ga 30333, USA
J Infect Dis 2003 **188** (1) 81

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mococcal disease in Navajo adults

Berovic M, Habijan J, Zore I, Wraber B, Hodzar D, Boh B, Pohleven F// Natl Inst Chem, Hajdrihova 19, SI-1001 Ljubljana, Slovenia
J Biotechnol 2003 **103** (1) 77

Submerged cultivation of *Ganoderma lucidum* biomass and immunostimulatory effects of fungal polysaccharides

Campbell BS, McDougall BM, Seviour RJ*// *La Trobe Univ, Biotechnol Res Ctr, Bendigo, Vic 3550, Australia
Enzyme Microb Technol 2003 **33** (1) 104

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Gloger O, Witthohn K, Muller BW*// *Univ Kiel, Dept Pharmaceut & Biopharmaceut, Gutenbergstr 76, DE-24118 Kiel, Germany
Int J Pharm 2003 **260** (1) 59

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Goncalves VMM, Takagi M, Lima RB, Massaldi H, Giordano RC, Tanizaki MM// Inst Butantan, Ctr Biotecnol, Avda Vital Brasil 1500, BR-05503-900 Sao Paulo, Brazil
Biotechnol Appl Biochem 2003 **37** (3) 283

Purification of capsular polysaccharide from *Streptococcus pneumoniae* serotype 23F by a procedure suitable for scale-up

Hino T, Ishimoto H, Shimabayashi S// Univ Tokushima, Fac Pharmaceut Sci, Shomachi 1-78-1, Tokushima 770 8505, Japan
J Pharm Pharmacol 2003 **55** (4) 435

Thermal gelation of aqueous curdlan suspension: Preparation of curdlan jelly

Hoh CK, Wallace AM, Vera DR// Univ Calif San Diego, Dept Radiol, La Jolla, Ca 92093, USA
Nucl Med Biol 2003 **30** (5) 457

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Hsieh YC, Liang SM, Tsai WL, Chen YH, Liu TY, Liang CM*// *Acad Sinica, Inst Biol Chem, 128 Acad Rd Sect 2, Taipei 11529, Taiwan
Infect Immun 2003 **71** (6) 3329

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Hsu CH, Lo YM*// *Univ Maryland, Dept Nutr & Food Sci, 3304 Marie Mount Hall, College Park, Md 20742, USA
Process Biochem 2003 **38** (11) 1617

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Hsu MJ, Lee SS, Lee ST, Lin WW*// *Natl Taiwan Univ, Coll Med, Dept Pharmacol, Taipei, Taiwan
Br J Pharmacol 2003 **139** (2) 289

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Jang KH, Ryu EJ, Park BS, Song KB, Kang SA, Kim CH, Uhm TB, Park YI, Rhee SK*// *Korea Res Inst Biosci & Biotechnol, Taejon 305 333, South Korea
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Carbohydr Res 2003 **338** (14) 1507

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Jin Y, Zhang LN*, Zhang M, Chen L, Cheung PCK, Oi VEC, Lin YL// *Address as above
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Kim D, Robyt JF, Lee SY, Lee JH, Kim YM// Chonnam Natl Univ, Fac Appl Chem Engr, 300 Yongbong dong, Kwangju 500 757, South Korea
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Krauland AH, Leitner VM, Bernkop-Schnurch A*// *Univ Vienna, Ctr Pharm, Inst Pharmaceut Technol & Biopharmaceut, Althanstr 14, AT-1090 Vienna, Austria
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Kubo W, Miyazaki S, Attwood D*// *Univ Manchester, Sch Pharm & Pharmaceut Sci, Manchester M13 9PL, England
Int J Pharm 2003 **258** (1-2) 55

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Leathers TD, Nunnally MS, Ahlgren JA, Cote GL// USDA/ARS, Fermentat Biotechnol Res Unit, NCAUR, 1815 Nth Univ St, Peoria, Il 61604, USA
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Lowman DW, Ferguson DA, Williams DL// Eastman Chem Co, Global Polymers & Res Analyt Serv, Kingsport, Tn 37662, USA
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Lukondeh T, Ashbolt NJ, Rogers PL, Hook JM// Univ New Sth Wales, Sch Civil & Environm Engr, Sydney, NSW 2052, Australia
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Moreira M, Bevilacqua A, De Antoni G// Natl Univ La Plata, Fac Ciencias Exactas, CONICET, Ctr Invest & Desarrollo Criotecol Alimentos, AR-1900 La Plata, Argentina
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Moritaka H, Kimura S, Fukuba H// Showa Womens Univ, Fac Living Sci, Dept Food Sci & Nutr, 1-7 Taishido, Setagaya-ku, Tokyo 154-8533, Japan
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Nampoothiri KM, Singhanian RR, Sabarinath C, Pandey A*// *Reg Res Lab - CSIR, Biotechnol Div, IN-695 019 Trivandrum, India
Process Biochem 2003 **38** (11) 1513

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Nickerson MT, Paulson AT*, Speers RA// *Dalhousie Univ, Dept Food Sci & Technol, Sexton Campus, PO Box 1000, Halifax, Nova Scotia, Canada B3J 2X4
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Rosado FR, Germano S, Carbonero ER, Da Costa SMG, Iacomini M, Kemmelmeier C*// *Univ Estadual Maringa, Dept Bioquim, Avda Colombo 5790, Cx P 331, BR-87020-900 Maringa, Parana, Brazil
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Med & Dent Sci, Div Oral Ecol Hlth & Infect, Course Oral Life Sci, Niigata 951 8514, Japan
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Carbohydr Polym 2003 **54** (1) 51
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Carbohydr Polym 2003 **53** (4) 469
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