

Bibliography of analytical, nutritional and clinical methods

(2 weeks journals - Search completed at 10th Apr 1997)

1 BOOKS, REVIEWS & SYMPOSIA

Hamada JS// USDA/ARS, Sthn Reg Res Ctr, POB 19687, New Orleans, La 70179, USA

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Large-scale high-performance liquid chromatography of enzymes for food applications (Review)

Su YC, Wong ACL*// *Univ Wisconsin, Dept Food Microbiol & Toxicol, 1925 Willow Dr, Madison, WI 53706, USA

J Food Protect 1997 **60** (2) 195

Current perspectives on detection of staphylococcal enterotoxins (Review)

2 GENERAL

Belton PS// AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England

Pure Appl Chem 1997 **69** (1) 27

Spectroscopic approaches to the measurement of food quality

3 AMINO ACIDS, PROTEINS & ENZYMES

Bjorkman C, Holmdahl OJM, Uggla A// Swedish Univ Agr Sci, Dept Cattle & Sheep Dis, Box 7019, S-75007 Uppsala, Sweden

Vet Parasitol 1997 **68** (3) 251

An indirect enzyme-linked immunoassay (ELISA) for demonstration of antibodies to *Neospora caninum* in serum and milk of cattle

Chanthai S, Ogawa M, Tamiya T, Tsuchiya T// Sophia Univ, Dept Chem, Kioi cho, Tokyo 102, Japan

Fisheries Science 1996 **62** (6) 927

Studies on thermal denaturation of fish myoglobins using differential scanning calorimetry, circular dichroism, and tryptophan fluorescence

Chanthai S, Ogawa M, Tamiya T, Tsuchiya T// Address as above.

Fisheries Science 1996 **62** (6) 933

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Mol Immunol 1996 **33** (14) 1113

Expression, purification and immunochemical characterization of recombinant bovine β -lactoglobulin, a major cow milk allergen

De Frutos M, Cifuentes A, Diez-Masa JC*// *CSIC, Inst Organ Chem, C/ Juan Cierva 3, E-28006 Madrid, Spain

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Whey proteins eluted in reversed phase gradients

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J Dairy Res 1997 **64** (1) 77

Differential titration of plasmin and plasminogen in milk using sandwich ELISA with monoclonal antibodies

Favier J, Samson MF, Aubled C, Morel MH, Abecassis J// INRA, Unite Technol Cereales, 2 Pl Viala, F-34060 Montpellier 1, France

Sci Aliment 1996 **16** (6) 573

Thermal kinetics of dough proteins insolubilisation determined by size exclusion high-performance liquid chromatography (French, English Abstract)

Gehrig PM, Biemann K*// *MIT, Dept Chem, Cambridge, Ma 02139, USA

Peptide Res 1996 **9** (6) 308

Assignment of the disulfide bonds in napin, a seed storage protein from *Brassica napus*, using matrix-assisted laser desorption/ionization mass spectrometry

Gil AM, Masui K, Naito A, Tatham AS, Belton PS, Saito H// Univ Aveiro, Dept Chem, P-3800 Aveiro, Portugal

Biopolymers 1997 **41** (3) 289

A ^{13}C -NMR study on the conformational and dynamical properties of a cereal seed storage protein, C-hordein, and its model peptides

Vogt S, Freitag R*// *ETH Lausanne, Lab Biotechnol Cellulaire & Mol, CH-1015 Lausanne, Switzerland

J Chromatogr A 1997 **760** (1) 125

Comparison of anion-exchange and hydroxyapatite displacement chromatography for the isolation of whey proteins

4 CARBOHYDRATES

Jona R, Fronda A// Univ Turin, Dipt Colture Arboree, Via Leonardo da Vinci 44, I-10095 Grugliasco, TO, Italy

Biotech Histochem 1997 **72** (1) 22

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5 LIPIDS

Alonso L, Fontecha J, Lozada L, Juarez M// CSIC, Inst Prod Lacteos Asturias, Carretera Infiesto s/n, E-33300 Villaviciosa, Spain

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Bianchi E, Fabietti F, Delise M, Cantoni A, Zambini EM// Univ Parma, Scuola Specializzoz Chim & Tecnol Alimentari, I-43100 Parma, Italy

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Analytical profiles to distinguish refined and unrefined lards with particular regard to the 3,5-cholestadiene content (Italian, English Abstract)

Blaise P, Tropini V, Farines M, Wolff RL*// *Univ Bordeaux 1, ISTAB, Lab Lipochim Alimentaire, F-33405 Talence, France

J Amer Oil Chem Soc 1997 **74** (2) 165

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical, nutritional and clinical methods. The bibliography is divided into fourteen sections: 1 Books, Reviews & Symposia; 2 General; 3 Amino Acids, Proteins & Enzymes; 4 Carbohydrates; 5 Lipids; 6 Vitamins & Co-factors; 7 Trace Elements & Minerals; 8 Drug, Biocide & Processing Residues; 9 Toxins; 10 Additives; 11 Flavours & Aromas; 12 Organic Acids; 13 Animal Products; 14 Plant & Microbial Products. Within each section, articles are listed in alphabetical order with respect to the author. Where there are no papers to appear under a heading, it will be omitted.

Positional distribution of Δ^5 -acids in triacylglycerols from conifer seeds as determined by partial chemical cleavage

Liu JK, Yeo HC, Doniger SJ, Ames BN*// *Univ Calif, Div Biochem & Mol Biol, 401 Barker Hall, Berkeley, Ca 94720, USA

Anal Biochem 1997 **245** (2) 161

Assay of aldehydes from lipid peroxidation: Gas chromatography/mass spectrometry compared to thiobarbituric acid

Lopez-Hernandez J, Gonzalez-Castro MJ, Simal-Lozano J, Vazquez-Blanco ME, Vazquez-Oderiz ML// Univ Santiago de Compostela, Dept Quim Analit Nutr & Bromatol, E-15706 Santiago de Compostela, Spain
Grasas Aceites 1996 **47** (3) 182

GC determination of fatty acids in green beans grown in Galicia (NW Spain)

Marx F, Stender A// Univ Bonn, Inst Lebensmittelwissensch & Lebensmittelchem, Bonn, Germany

Fett-Lipid 1997 **99** (1) 25

Rapid micro methods for the GLC determination of fat content and fatty acid composition in seeds rich in lipids (German, English Abstract)

Mossoba MM, McDonald RE, Roach JAG, Fingerhut DD, Yurawecz MP, Sehat N// US/FDA, Ctr Food Safety & Appl Nutr, Washington, DC 20204, USA

J Amer Oil Chem Soc 1997 **74** (2) 125

Spectral confirmation of *trans* monosaturated C₁₈ fatty acid positional isomers

Phillips KM, Tarrago-Trani MT, Grove TM, Grun I, Lugogo R, Harris RF, Stewart KK// Virginia Polytech Inst & State Univ, Dept Biochem, Blacksburg, Va 24061, USA

J Amer Oil Chem Soc 1997 **74** (2) 137

Simplified gravimetric determination of total fat in food composites after chloroform-methanol extraction

Piette JPG, Jacques L// Agr & Agri-Food Canada, Ctr Food Res & Dev, 3600 Casavant Blvd W, St Hyacinthe, Quebec, Canada J2S 8E3

Fleischwirtschaft 1997 **77** (1) 54

Evaluation of a rapid fat analyzer, based on ohmic heating, for the classification of ground beef

Tsimidou M, Lytridou M, Boskou D, Pappa-Louisi A, Kotsifaki F, Petrakis C// Univ Thessaloniki, Food Chem & Technol Lab, GR-54006 Thessaloniki, Greece

Grasas Aceites 1996 **47** (3) 151

On the determination of minor phenolic acids of virgin olive oil by RP-HPLC

Watson JE, Evans RW, Germanowski J, Caggiula AW, Olson MB, Hauth BA// Univ Pittsburgh, Dept Epidemiol, 502 Parran Hall, Pittsburgh, Pa 15261, USA

Arch Pathol Lab Med 1997 **121** (2) 105

Quality of lipid and lipoprotein measurements in community laboratories

6 VITAMINS & CO-FACTORS

Issopoulos PB, Salta SE// Univ Ioannina, Lab Inorgan & Pharmaceut Analyt Chem, GR-45110 Ioannina, Greece

Fresenius J Anal Chem 1997 **357** (3) 317

Improvement of an old spectrophotometric method for the microdetermination of ascorbic acid by the use of a micellar medium

Liu ZM, Li T, Li J, Wang EK*// *Chinese Acad Sci, Changchun Inst Appl Chem, Electroanalyt Chem Lab, Changchun 130022, Jilin, Peoples Rep China

Anal Chim Acta 1997 **338** (1-2) 57

Detection of menadione sodium bisulfite (vitamin K₃) by reversed-phase high performance liquid chromatography with series dual-electrode amperometric detector

Sano Y, Kikuchi K, Tadano K, Hoshi K, Koshihara Y// Eisai & Co Ltd, Tsukuba Res Labs, Tsukuba, Ibaraki 30026, Japan

Anal Sci 1997 **13** (1) 67

Simultaneous determination of menaquinone-4 and its metabolite in human osteoblasts by high-performance liquid chromatography/atmospheric pressure chemical ionization tandem mass spectrometry

7 TRACE ELEMENTS & MINERALS

Adeloju SB, Jagner D, Renman L// Univ Western Sydney, Ctr Electrochem Res & Anal Technol, Kingswood, NSW 2747, Australia

Anal Chim Acta 1997 **338** (3) 199

Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform

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Sci Aliment 1996 **16** (6) 623

Determination of tin content in fruits, vegetables and their juices according to packaging (French, English Abstract)

Diaz JP, Navarro M*, Lopez H, Lopez MC// *Univ Granada, Dept Nutr & Bromatol, E-18071 Granada, Spain

Food Addit Contam 1997 **14** (2) 109

Determination of selenium levels in dairy products and drinks by hydride generation atomic absorption spectrometry: Correlation with daily dietary intake

Miyashita M, Yamashita S// Hoshi Coll Pharm, Dept Clin Chem, Shinagawa ku, 2-4-41 Ebara, Tokyo 142, Japan

Bunseki Kagaku 1997 **46** (2) 143

Solid-phase extraction for reversed-phase high-performance liquid chromatographic determination of iodide ion (Japanese, English Abstract)

Yoshinaga J, Morita M, Okamoto K// Natl Inst Environm Studies, 16-2 Onogawa, Tsukuba, Ibaraki 305, Japan

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New human hair certified reference material for methylmercury and trace elements

8 DRUG, BIOCIDES & PROCESSING RESIDUES

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Pestic Sci 1997 **49** (1) 56

Liquid and gas chromatographic multi-residue pesticide determination in animal tissues

El-Shahawi MS// UAE Univ, Dept Chem, POB 17551, Al-Ain, United Arab Emirates

J Chromatogr A 1997 **760** (2) 179

Retention profiles of some commercial pesticides, pyrethroid and acaricide residues and their application to tomato and parsley plants

Kohri M, Sato K, Ide K, Inoue Y, Okochi H// Natl Res Inst Met, 2-1 Sengen 1-chome, Tsukuba, Ibaraki 305, Japan

Anal Sci 1997 **13** (1) 141

Solid phase extraction for the speciation of organotin compounds in shellfish samples

Muldoon MT, Stanker LH*// *USDA/ARS, Food Anim Protect Res Lab, 2881 F&B Rd, College Stn, Tx 77845, USA

Anal Chem 1997 **69** (5) 803

Molecularly imprinted solid phase extraction of atrazine from beef liver extracts

Rose MD, Tarbin J, Farrington WHH, Shearer G// MAFF, CSL Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England

Food Addit Contam 1997 **14** (2) 127

Determination of penicillins in animal tissues at trace residue concentrations. II. Determination of amoxicillin and ampicillin in liver and muscle using cation exchange and porous graphitic carbon and solid phase extrac-

tion and high-performance liquid chromatography

Shirai Y, Suzuki S, Hibino H, Hayakawa T// Minist Agr Forestry & Fisheries, Tokyo Fertilizer & Feed Inspect Stn, Chiyoda ku, 1-3-5 Ote machi, Tokyo 100, Japan

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Gas chromatographic simultaneous determination of organophosphorus pesticides in food after clean-up by gel-permeation chromatography and solid-phase extraction (Japanese, English Abstract)

Valverde A, Pihlstrom T, Andersson A// Univ Almeria, Dept Quim Fis Bioquim & Quim Inorgan, E-04071 Almeria, Spain

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Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology

9 TOXINS

De Oliveira CAF, Germane PML// *Univ Sao Paulo, Dept Saude Publ, Avda Dr Arnaldo 715, BR-01246-904 Sao Paulo, Brazil

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Evaluation of competitive enzyme-linked immunosorbent assay (ELISA) in milk powder contaminated with known concentrations of aflatoxin M₁ (Portuguese, English Abstract)

Frohlich AA, Marquardt RR*, Clarke JR// *Univ Manitoba, Dept Anim Sci, Winnipeg, Manitoba, Canada R3T 2N2

J Food Protect 1997 **60** (2) 172

Enzymatic and immunological approaches for the quantitation and confirmation of ochratoxin A in swine kidneys

Mantle PG// Univ London, Imperial Coll Sci Technol & Med, Dept Biochem, London SW7 2AY, England

J Dairy Sci 1996 **79** (11) 1988

Detection of ergot (*Claviceps purpurea*) in a dairy feed component by gas chromatography and mass spectrometry

Mukhin DN, Chatterjee S*// *Johns Hopkins Univ Hosp, Dept Pediat, 600 Nth Wolfe St, Baltimore, Md 21287, USA

Anal Biochem 1997 **245** (2) 213

A receptor-based immunoassay to detect *Staphylococcus* enterotoxin B in biological fluids

Patel S, Hazel CM, Winterton AGM, Gleadle AE// RHM Technol Ltd, Rank Ctr, Lincoln Rd, High Wycombe HP12 3QR, England

Food Addit Contam 1997 **14** (2) 187

Surveillance of fumonisins in UK maize-based foods and other cereals

Scudamore KA, Hetmanski MT, Nawaz S, Naylor J, Rainbird S// KAS Mycotoxins, 6 Fern Dr, Maidenhead SL6 0JS, England

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Determination of mycotoxins in pet foods sold for domestic pets and wild birds using linked-column immunoassay clean-up and HPLC

Usleber E, Donald M, Straka M, Martlbauer E// Univ Munich, Inst Hyg & Technol Food Anim Origin, Vet Str 13, D-80539 Munich, Germany

Food Addit Contam 1997 **14** (2) 193

Comparison of enzyme immunoassay and mouse bioassay for determining paralytic shellfish poisoning toxins in shellfish

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Acree TE// Cornell Univ, Dept Food Sci & Technol, Geneva, NY 14456, USA

Anal Chem 1997 **69** (5) A170

GC/olfactometry

Duncan AJ, Rabot S, Nugon-Baudon L// Macaulay Land Use Res Inst, Aberdeen AB9 2QJ, Scotland

J Sci Food Agr 1997 **73** (2) 214

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Sommerer N, Semon T, Le Quere JL// INRA, Rech Aromes Lab, 17 rue Sully, F-21034 Dijon, France

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Identification of aromatic extracts by combined gas chromatography and mass spectrometry (French)

13 ANIMAL PRODUCTS

Davenel A, Schuck P, Marchal P// Cemagref, Div Technol, F-35044 Rennes, France

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A NMR relaxometry method for the determining of reconstitutability and the water-holding capacity of protein-rich milk powders

Hofmann K// Bundesanstalt Fleischforsch, Inst Chem & Phys, EC Baumann Str 20, D-95326 Kulmbach, Germany

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Russell SM// Univ Georgia, Dept Poultry Sci, Athens, Ga 30602, USA

J Food Protect 1997 **60** (2) 148

A rapid method for predicting the potential shelf life of fresh broiler chicken carcasses

Shukla A, Rizvi SSH// Cornell Univ, Inst Food Sci, Ithaca, NY 14853, USA

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Comparative evaluation of three fundamental techniques for measurement of butter rheology

14 PLANT & MICROBIAL PRODUCTS

Cheung PCK// Chinese Univ, Dept Biol, Shatin, NT, Hong Kong

J Sci Food Agr 1997 **73** (2) 255

Dietary fibre content and composition of some edible fungi determined by two methods of analysis

Donker HCW, Van As H*, Edzes HT, Jans AWH// *Agr Univ Wageningen, Dept Mol Phys, Dreijenlaan 3, NL-6703 HA Wageningen, The Netherlands

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NMR imaging of white button mushroom (*Agaricus bisporus*) at various magnetic fields

Downey G, Spengler B// Teagasc Natl Food Ctr, Dublin 15, Rep Ireland

Irish J Agr Food Res 1996 **35** (2) 179

Compositional analysis of coffee blends by near infrared spectroscopy

Garcia-Viguera C, Zafrilla P, Tomas-Barberan FA// CSIC, CEBAS, Dept Ciencia & Technol Alimentos, AC 4195, E-30080 Murcia, Spain

J Sci Food Agr 1997 **73** (2) 207

Determination of authenticity of fruit jams by HPLC analysis of anthocyanins

Henry RJ, Ko HL, Weining S// Sthn Cross Univ, Ctr Plant Conservat Genet, Lismore, NSW, Australia

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Identification of cereals using DNA-based technology

Moll M// Moll Int, 1 Allee Chaptal, F-54630 Richardmenil, France

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An update of analytical procedures for the determination of malt modification and malt homogeneity. IV. (German, English Abstract)