

Bibliography of analytical, nutritional and clinical methods

(7 weeks journals. Search completed at 1st. Nov. 2000)

1. Books, reviews & symposia

Alomirah HF, Alli I*, Konishi Y// *McGill Univ, Dept Food Sci & Agr Chem, McDonald Campus, 21 111 Lakeshore Rd, Montreal, Quebec H9X 3V9, Canada

J Chromatogr A 2000 **893** (1) 1
Applications of mass spectrometry to food proteins and peptides: Review

Bama-Vetro I, Balazs E, Solti L// Diagnost Lab, Szent Gyorgyi u 4, POB 411, HU-2101 Godollo, Hungary

Am Lab 2000 **32** (17) 64
Immunodiagnosics for food and feed safety

Kleszczewska E// Univ Bialystok, Inst Chem, J Pilsudskiego 11-4, PL-15443 Bialystok, Poland

Pharmazie 2000 **55** (9) 640
L-Ascorbic acid: Clinical use, toxicity, properties, methods of determination and application in chemical analysis (Review)

Kvasnicka F// Inst Chem Technol, Dept Food Preservat & Meat Technol, Technicka 5, CZ-16628 Prague 6, Czech Republic

Electrophoresis 2000 **21** (14) 2780
Application of isotachopheresis in food analysis

Sabe R, Rubio R*, Garcia-Beltran L// *Univ Barcelona, Dept Quim Analit, Marti i Franques 1-11, ES-08028 Barcelona, Spain

Anal Chim Acta 2000 **419** (2) 121
Determination of selenium in human blood specimens by electrothermal atomic absorption (Review)

Yebrá-Biurrun MC// Univ Santigao de Compostela, Fac Chem, Dept Analyt Chem Nutr & Bromatol, ES-15706 Santiago de Compostela, Spain

Food Addit Contam 2000 **17** (9) 733
Flow injection determinations of artificial sweeteners: A review

2. General

Molnar-Peri I// Lorand Eotvos Univ, Inst Inorgan & Analyt Chem, POB 32, HU-1518112 Budapest, Hungary

J Chromatogr A 2000 **891** (1) 1
Role of chromatography in the analysis of sugars, carboxylic acids and amino acids in food

Zorgati W, Rutledge DN, Feinberg MH// *INRA, Lab Chim Analyt, 16 rue Claude Bernard, FR-75231 Paris 05, France

Analysis 2000 **28** (3) 245
The use of synthetic foods to optimise microwave-assisted digestion procedures

3. Amino acids, proteins & enzymes

Belloque J, Lopez-Fandino R, Smith GM// CSIC, Inst Fermentac Ind, Juan Cierva 3, ES-28006 Madrid, Spain

J Agric Food Chem 2000 **48** (9) 3906
A ¹H-NMR study on the effect of high pressures on β-lactoglobulin

Blais BW, Phillippe LM// Canadian Food Inspect Agcy, Lab Serv Div, Ottawa, Ontario, Canada K1A 0C6

Food Agric Immunol 2000 **12** (3) 243
A cloth-based enzyme immunoassay for detection of peanut proteins in foods

Casserly U, Mooney MT, Troy D// Nat Food Ctr, Teagasc, Dept Meat Technol, Dunsinea, Dublin 15, Rep Ireland

Food Chem 2000 **69** (4) 379
Standardisation and application of a semi-quantitative SDS-PAGE method for measurement of myofibrillar protein fragments in bovine longissimus muscle

Cattaneo TMP, Barzaghi S, Giangiacomo R// Ist Sperimentale Lattiero Caseario, via A Lombardo 11, IT-26900 Lodi, Italy

Milchwissenschaft 2000 **55** (7) 367
Caseino-macro-peptide monitoring by capillary zone electrophoresis (CZE) and interpretation of structural modifications during the primary clotting phase of milk

De Bruijn JM, Bout M// CSM Suiker BV, Cent Lab, Postbus 3248, NL-4800 De Breda, The Netherlands

Zuckerindustrie 2000 **125** (8) 604
HPAEC analysis of amino acids in sugar beet samples: Method development and application

Fontaine J, Eudaimon M// Degussa-Huls AG, Feed Addit Div, Appl Technol, Rodenbacher Chaussee 4, POB 1345, DE-63403 Hannau, Germany

J AOAC Int 2000 **83** (4) 771
Liquid chromatographic determination of lysine, methionine, and threonine in pure amino acids (feed grade) and premixes: Collaborative study

Garcia MC, Amigo L, Torre M, Marina ML, Molina E// Univ Alcala de Henares, Fac Ciencias, Dept Quim Analit, ES-28871 Madrid, Spain

J Liq Chromatogr Relat Technol 2000 **23** (13) 2021
Use of Phastgel sodium dodecyl sulphate polyacrylamide gel electrophoresis for rapid characterization of soybean proteins in commercial soybean products

Inano K, Tezuka S, Miida T, Okada M// Niigata Univ, Fac Med, Dept Lab Med, 1-757 Asahimachi, Niigata 951 8510, Japan

Ann Clin Biochem 2000 **37** (5) 708
Capillary isotachopheretic analysis of serum lipoproteins using a carrier ampholyte as spacer ion

McCarthy K, Hischenhuber C, Joyce N// Pedigree Masterfoods, Mill St, Melton Mowbray LE13 1BB, England

J AOAC Int 2000 **83** (4) 784
Determination of total taurine in pet foods by liquid chromatography of the dansyl derivative: Collaborative study

Miralles B, Bartolome B, Ramos M, Amigo L// CSIC, Inst Fermentac Ind, Juan Cierva 3, ES-28006 Madrid, Spain

Int Dairy J 2000 **10** (3) 191
Determination of whey protein to total protein ratio in UHT milk using fourth derivative spectroscopy

Mizubuti IY, Biondo-Junior OB, De Oliveira-Souza LW, Dos Santos-Ferreira-da Silva RS, Ida EI// Univ Londrina, Dept Anim Sci, PO Box 6001, BR-86051-990 Londrina, Brazil

Food Chem 2000 **70** (2) 259
Response surface methodology for extraction optimization of pigeon pea protein

Montagne PM, Tregoeat VS, Cuilliere ML, Bene MC, Faure GC// Fac Med, Lab Immunol, GRIP, BP 184, FR-54505 Vandoeuvre-les-Nancy, France

Clin Biochem 2000 **33** (3) 181
Measurement of nine human milk proteins by nephelometric immunoassays: Application to the determination of mature milk protein profile

Morel MH, Dehlon P, Autran JC, Leygue JP, Bar L/Helgouach C// INRA, Unite Technol Cereales & Agropolymeres, FR-34060 Montpellier, France

Cereal Chem 2000 **77** (5) 685

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.

Effects of temperature, sonication time, and power settings on size distribution and extractability of total wheat flour proteins as determined by size-exclusion high-performance liquid chromatography

Pineiro C, Barros-Velazquez J, Perez-Martin RI, Gallardo JM// Inst Invest Marinas, CSIC, Eduardo Cabello 6, ES-36208 Vigo, Spain
Food Chem 2000 **70** (2) 241

Specific enzyme detection following isoelectric focusing as a complimentary tool for the differentiation of related gadoid fish species

Rochdi A, Foucat L, Renou JP// *Stat Rech Viande, Struct Tissulaire & Interactions Molec, INRA Theix, FR-63122 Saint-Genes-Champanelle, France
Food Chem 2000 **69** (3) 295

NMR and DSC studies during thermal denaturation of collagen

Scardone D, Forlani F, Cerletti P// *Univ Milan, Dipt Sci Mol Agroaliment, via Celoria 2, IT-20133 Milan, Italy
Cereal Chem 2000 **77** (5) 602

Accessibility of amino groups in gluten proteins studied by a combination of chemical labeling and immunochemical detection

Scintu MF, Daga E, Ledda A// Ist Zootecn & Caserario Sardegna, Loc Bonasai, IT-07040 Olmedo, Italy
J Food Prot 2000 **63** (9) 1258

Evaluation of spectrophotometric and fluorometric methods for alkaline phosphatase activity determination in ewe's milk

Yeboah FK, Alli I*, Yaylayan VA, Konishi Y, Stefanowicz P// *McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, 21 111 Lakeshore Rd, St Anne de Bellevue, Quebec, Canada H9X 3V9
J Agric Food Chem 2000 **48** (7) 2766

Monitoring glycation of lysozyme by electrospray ionization mass spectrometry

4. Carbohydrates

Baunsgaard D, Andersson CA, Arndal A, Munck L// Royal Vet & Agric Univ, Dept Dairy & Food Sci, Food Technol, Chemometrics Grp, Rolighedsvej 30, DK-1958 Frederiksberg C, Denmark
Food Chem 2000 **70** (1) 113

Multi-way chemometrics for mathematical separation of fluorescent colorants and colour precursors for spectrofluorimetry of beet sugar and beet sugar thick juice as validated by HPLC analysis

Broberg S, Koch K, Andersson R, Kenne L// Swedish Univ Agric Sci, Dept Chem, PO Box 7015, SE-75007 Uppsala, Sweden
Carbohydr Polym 2000 **43** (3) 285

A comparison between MALDI-TOF mass spectrometry and HPAEC-PAD analysis of debranched starch

Cataldi TRI, Margiotta G, Iasi L, Di Chio B, Xiloyannis C, Bufo SA// Univ Basilicata, Dipt Chim, via N Sauro 85, IT-85100 Potenza, Italy
Anal Chem 2000 **72** (16) 3902

Determination of sugar compounds in olive plant extracts by anion-exchange chromatography with pulsed amperometric detection

Craig SAS, Holden JF, Khaled MY// Danisco Cultor, 440 Saw Mill River Rd, Ardsley, NY 10502, USA
J AOAC Int 2000 **83** (4) 1006

Determination of polydextrose as dietary fiber in foods

Da Costa-Leite JM, Trugo LC, Costa LSM, Quinteiro LMC, Barth OM, Dutra VML, De Maria CAB// *UNI-RIO, Inst Biomed, Caju, Rua Gen Sampaio 71, BR-20931-350 Rio de Janeiro, Brazil
Food Chem 2000 **70** (1) 93

Determination of oligosaccharides in Brazilian honeys of different botanical origin

Eshkenazi I, Maltz E, Zion B, Rishpon J// *Tel Aviv Univ, Dept Mol Microbiol & Biotechnol, IL-69978 Ramat Aviv, Israel
J Dairy Sci 2000 **83** (9) 1939

A three-cascaded-enzymes biosensor to determine lactose concentration in raw milk

Flurer CL// US/FDA, Forens Chem Ctr, 6751 Steger Dr, Cincinnati, Oh 45237, USA
Food Addit Contam 2000 **17** (9) 721

Characterization of galactomannans by capillary electrophoresis

Gelroth JA, Ranhotra GS// Amer Inst Baking, 1213 Bakers Way, POB 3999, Manhattan, Ks 66505, USA
J AOAC Int 2000 **83** (4) 988

Determination of resistant starch in selected grain-based foods

Joye D, Hoebregs H// ORAFIT, Analyt Serv, Aandorenstr 1, BE-3300 Tienen, Belgium
J AOAC Int 2000 **83** (4) 1020

Determination of oligofructose, a soluble dietary fiber, by high-temperature

capillary gas chromatography

Nojiri S, Taguchi N, Oishi M, Suzuki S// Metropolitan Res Lab Publ Htlh, Tama Branch Lab, 3-16-25 Shibazakicho, Tokyo, Japan
J Chromatogr A 2000 **893** (1) 195

Determination of sugar alcohols in confectioneries by high-performance liquid chromatography after nitrobenzoylation

Ohkuma K, Matsuda I, Katta Y, Tsuji K// Matsutani Chem Ind Co Ltd, 5-3 Kita, Itami, Hyogo 664 8508, USA
J AOAC Int 2000 **83** (4) 1013

New method for determining total dietary fiber by liquid chromatography

Sagum R, Arcot J// *Univ New Sth Wales, Dept Food Sci & Technol, Sydney 2052, Australia
Food Chem 2000 **70** (1) 107

Effect of domestic processing methods on the starch, non-starch polysaccharides and *in vitro* starch and protein digestibility of three varieties of rice with varying levels of amylose

Soga T, Serwe M// Yokogawa Anal Systems Inc, Applicat Dev Dept, 2-11-13 Nakacho, Musashino-shi, Tokyo 180 0006, Japan
Food Chem 2000 **69** (3) 339

Determination of carbohydrates in food samples by capillary electrophoresis with indirect UV detection

Thomas BR, Brandley BK, Rodriguez RL// *Univ Calif, Sect Mol & Cellular Biol, Davis, Ca 95616, USA
J Am Soc Brew Chemist 2000 **58** (3) 124

Rapid analysis of saccharides in beer via fluorescence-assisted carbohydrate electrophoresis

Wasserman LA, Le Meste M// Russian Acad Sci, Inst Biochem Phys, 4 Kosygina, RU-117334 Moscow, Russia
J Sci Food Agric 2000 **80** (11) 1608

Influence of water on potato starch-lipid interactions: An electron spin resonance (ESR) probe study

5. Lipids

Ackman RG, Macpherson EJ, Timmins A// Dalhousie Univ, Canadian Inst Fisheries Technol, Daltech, POB 1000, Halifax, Nova Scotia, Canada B3J 2X4
J Am Oil Chem Soc 2000 **77** (8) 831

Squalene in oils determined as squalene by gas-liquid chromatography after hydrogenation of methyl esters

Bartolozzi G, Bizzozero N, Ghiringhelli L// ASL Citta Milano, PMIP, Unita Operat Chim, via Juvara 22, IT-20129 Milan, Italy
Ind Aliment 2000 **39** (393) 691

Analysis of frying oils (Italian, English Abstract)

Boselli E, Grob K, Lercker G// Kantonales Lab, CH-8030 Zurich, Switzerland
J Agric Food Chem 2000 **48** (7) 2868

Determination of furan fatty acids in extra virgin olive oil

Di Buono M, Jones PJH, Beaumier L, Wykes LJ// *McGill Univ, Sch Dietet & Human Nutr, MacDonald Campus, Montreal, Quebec, Canada H9X 3V9
J Lipid Res 2000 **41** (9) 1516

Comparison of deuterium incorporation and mass isotopomer distribution analysis for measurement of human cholesterol biosynthesis

Fei H, Maeda S, Kirii H, Fujigaki S, Maekawa N, Fujii H, Wada H, Saito K, Seishima M// *Gifu Univ, Sch Med, Dept Lab Med, 40 Tsukasa machi, Gifu 500 8705, Japan
Clin Chem 2000 **46** (9) 1351

Evaluation of two different homogeneous assays for LDL-cholesterol in lipoprotein-X-positive serum

Fontecha J, Rios JJ, Lozado L, Fraga MJ, Juarez M// CSIC, Inst Frio, Dept Prod Lacteos, Ciudad Univ s/n, ES-28040 Madrid, Spain
Int Dairy J 2000 **10** (1-2) 119

Composition of goat's milk fat triglycerides analysed by silver ion adsorption-TLC and GC-MS

Foster R, Cassidy J, O'Donoghue E// Medical Staffing, Ysbyty Gwynedd, Gwynedd LL57 2PW, Wales
Electroanalysis 2000 **12** (9) 716

Electrochemical diagnostic strip device for total cholesterol and its subfractions

Fraga MJ, Fontecha J*, Lozada L, Martinez-Castro I, Juarez M// *Univ Politecn Madrid, ES-28040 Madrid, Spain
J Dairy Res 2000 **67** (3) 437

Composition of the sterol fraction of caprine milk fat by gas chromatography and mass spectrometry

Garcia CDC, Hernandez JL*, Lozano JS// *Univ Santiago Compostela, Fac Farm, Dept Quim Analit Nutr & Bromatol, ES-15706 La Coruna, Spain
J Chromatogr A 2000 **891** (2) 367

Gas chromatography determination of the fatty-acid content of heat-treated green beans

Gertz C, Fiebig HJ// Chem Untersforschamt Hagen, Pappelstr 1, DE-58099 Hagen, Germany

Eur J Lipid Sci Technol 2000 **102** (2) 154

Determination of fat content by the Caviezel® method (rapid method)

Goyal SS// Univ Calif Davis, Dept Agron & Range Sci, 1 Shields Ave, Davis, Ca 95616, USA

Commun Soil Sci Plant Anal 2000 **31** (11-14) 1919

A simple method for determination of fatty acid composition of seed oils using high performance liquid chromatography

Havrilla CM, Hachey DL, Porter NA** *Vanderbilt Univ, Dept Chem, Box 1583, Nashville, Tn 37235, USA

J Am Chem Soc 2000 **122** (33) 8042

Coordination (Ag^+) ion spray-mass spectrometry of peroxidation products of cholesterol linoleate and cholesterol arachidonate: High-performance liquid chromatography-mass spectrometry analysis of peroxide products from polyunsaturated lipid autoxidation

Kowalski B, Gruczynska E, Maciaszek K// Agr Univ Warsaw, SGGW, Dept Food Technol, 26-30 Rakowiecka St, PL-02528 Warsaw, Poland

Eur J Lipid Sci Technol 2000 **102** (5) 337

Kinetics of rapeseed oil oxidation by pressure differential scanning calorimetry measurements

Kurihara K, Tanoue F// Dainippon Ink & Chem Inc, Anal Ctr, 631 Sakado, Sakura, Chiba 285 8668, Japan

Bunseki Kagaku 2000 **49** (7) 557

Facile determination of fatty acids ratio in oils and fats by adding alcohol with high-frequency heating and GC/MS (Letter) (Japanese)

Molkentin J, Precht D// Inst Chem & Phys, Fed Dairy Res Ctr, Herman Weigmann Str 1, DE-24103 Kiel, Germany

Eur J Lipid Sci Technol 2000 **102** (3) 194

Validation of a gas-chromatographic method for the determination of milk fat contents in mixed fats by butyric acid analysis

Mu HL, Kalo P, Xu XB, Hoy CE// Tech Univ Denmark, Dept Biochem & Nutr, Ctr Adv Food Studies, Bldg 224, DK-2800 Lyngby, Denmark

Eur J Lipid Sci Technol 2000 **102** (3) 202

Chromatographic methods in the monitoring of lipase-catalyzed interesterification

Precht D, Molkentin J// Bundesanstalt Milchwforsch, Inst Chem & Phys, Herman Weigmann Str 1, DE-24103 Kiel, Germany

Eur J Lipid Sci Technol 2000 **102** (2) 102

Identification and quantitation of *cis/trans* C16:1 and C17:1 fatty acid positional isomers in German human milk lipids by thin-layer chromatography and gas chromatography/mass spectrometry

Steenhorst-Slikkerveer L, Louter A, Janssen HG, Bauer-Plank C// Unilever Res Labs, Olivier Van Noortlaan 120, POB 114, NL-3130 AC Vlaardingen, The Netherlands

J Am Oil Chem Soc 2000 **77** (8) 837

Analysis of nonvolatile lipid oxidation products in vegetable oils by normal-phase high-performance liquid chromatography with mass spectrometric detection

Wang Y, Sunwoo H, Cherian G, Sim JS** *Univ Alberta, Dept Agr Food & Nutr Sci, Edmonton, Alberta, Canada T6G 2P5

Poult Sci 2000 **79** (8) 1168

Fatty acid determination in chicken egg yolk: A comparison of different methods

Wolff RL, Combe NA, Destaillets F, Boue C, Precht D, Molkentin J, Entresangles B// Univ Bordeaux 1, ISTAB, Ave Faculte, FR-33405 Talence, France

Lipids 2000 **35** (8) 815

Follow-up of the Δ^4 to Δ^{16} *trans*-18:1 isomer profile and content in French processed foods containing partially hydrogenated vegetable oils during the period 1995-1999. Analytical and nutritional implications

Yu LP, Hammond EG** *Iowa State Univ Sci & Technol, Dept Food Sci & Human Nutr, 2313 Food Sci Bldg, Ames, Ia 50011, USA

J Am Oil Chem Soc 2000 **77** (9) 911

The modification and analysis of vegetable oil for cheese making

6. Vitamins & co-factors

Akimoto N, Maoka T, Fujiwara Y, Hashimoto K// Kyoto Univ, Grad Sch Pharm Sci, 46-29 Yoshida-shimodachi-cho, Sakyou-ku, Kyoto 606-8501, Japan

J Mass Spectrom Soc Jpn 2000 **48** (1) 32

Analysis of carotenoids by FAB CID-MS/MS

Alonso L, Palmero S, Munoz E, Sanllorente S, Garcia-Garcia MA** *Univ

Burgos, Fac Ciencias, Dept Quim, Pza Misael Banuelos s/n, ES-09001 Burgos, Spain

Electroanalysis 2000 **12** (10) 757

Electrochemical behavior of menadione on glassy carbon rotating disk electrode (RDE)

Bossi A, Piletsky SA, Piletska EV, Righetti PG, Turner APF// Cranfield Inst Technol, Cranfield MK43 0AL, England

Anal Chem 2000 **72** (18) 4296

An assay for ascorbic acid based on polyaniline-coated microplates

Brunsch A, Zedow D, Hannewald T, Kopke U// Univ Bonn, Inst Organ Landbau, Katzenburgweg 3, DE-53115 Bonn, Germany

Dtsch Lebensm Rundsch 2000 **96** (8) 284

Automatic analysis of ascorbic acid in potatoes (German, English Abstract)

Buskov S, Hansen LB, Olsen CE, Sorensen JC, Sorensen H*, Sorensen S// *Royal Vet & Agr Univ, Thorvaldsensvej 40, DK-1871 Frederiksberg C, Denmark

J Agric Food Chem 2000 **48** (7) 2693

Determination of ascorbigenes in autolysates of various *Brassica* species using supercritical fluid chromatography

Canada MJA, Reguera MIP, Diaz AM** *Univ Jaen, Fac Expt Sci, Dept Phys & Analyt Chem, Paraje Las Lagunillas s/n, ES-23071 Jaen, Spain

Int J Pharm 2000 **202** (1-2) 113

Selective determination of pyridoxine in the presence of hydrosoluble vitamins using a continuous-flow solid phase sensing device with UV detection

Chou ST, Ko LE, Yang CS// Providence Univ, Dept Food & Nutr, Taichung, Taiwan

Anal Chim Acta 2000 **419** (1) 81

Determination of tissue α -tocopherol in senescence-accelerated mice by high-performance liquid chromatography with fluorimetric detection

Darnoko D, Cheryan M*, Moros E, Jerrel J, Perkins EG// *Univ Illinois, Dept Food Sci & Human Nutr, Agr Bioproc Lab, 1302 West Penn Avenue, Urbana, Il 61801, USA

J Liq Chromatogr Relat Technol 2000 **23** (12) 1873

Simultaneous HPLC analysis of palm carotenoids and tocopherols using a C30 column and photodiode array detector

Dueker SR, Lin YM, Jones AD, Mercer R, Fabbro E, Miller JW, Green R, Clifford AJ** *Univ Calif, Dept Nutr, Davis, Ca 95616, USA

Anal Biochem 2000 **283** (2) 266

Determination of blood folate using acid extraction and internally standardized gas chromatography/mass spectrometry detection

Fatibello O, Vieira ID// Univ Fed Sao Carlos, Dept Quim, Ctr Ciencias Exatas & Tecnol, CP 676, BR-13560-970 Sao Carlos, SP, Brazil

J Brazil Chem Soc 2000 **11** (4) 412

L-Ascorbic acid determination in pharmaceutical formulations using a biosensor based on carbon paste modified with crude extract of zucchini (*Cucurbita pepo*)

Furusawa N// Osaka City Univ, Fac Human Life Sci, Sumiyoshi ku, Osaka 558 8585, Japan

Food Control 2001 **12** (1) 27

Rapid high-performance liquid chromatographic identification/quantification of total vitamin C in fruit drinks

Gomis DB, Fernandez MP, Alvarez MDG// Univ Oviedo, Dept Quim Fis & Analit, ES-33006 Oviedo, Spain

J Chromatogr A 2000 **891** (1) 109

Simultaneous determination of fat-soluble vitamins and provitamins in milk by microcolumn liquid chromatography

Kall MA, Norgaard P, Pedersen SJ, Leth T// Minist Food Agr & Fisheries, Inst Food Res & Nutr, Danish Vet & Food Adm, Morkhoj Bygade 19, DK-2860 Soborg, Denmark

J Pharmaceut Biomed Anal 2000 **23** (2-3) 437

Optimised extraction of folic acid from multivitamin-mineral preparations for liquid chromatographic analysis

Li HB, Chen F*, Jiang Y// *Univ Hong Kong, Dept Bot, Pokfulam Rd, Hong Kong, Peoples Rep China

J Chromatogr A 2000 **891** (2) 243

Determination of vitamin B₁₂ in multivitamin tablets and fermentation medium by high-performance liquid chromatography with fluorescence detection

Marx M, Scheiber A, Carle R** *Hohenheim Univ, Inst Food Technol, Sect Plant Foodstuff Technol, Garbenstr 25, DE-70599 Stuttgart, Germany

Food Chem 2000 **70** (3) 403

Quantitative determination of carotene stereoisomers in carrot juices and vitamin supplemented (ATBC) drinks

Moreno G, Pariente F, Lorenzo E** *Univ Autonoma Madrid, Dept Quim Analit & Anal Instrumental, Canto Blanco, ES-28049 Madrid, Spain

Anal Chim Acta 2000 **420** (1) 29

Electrocatalytic oxidation of ascorbate at glassy carbon electrodes modified

with electrodeposited films derived from dihydroxybenzaldehyde isomers

Perri E, Mazzotti F, Raffaelli A, Sindona G*// *Univ Calabria, Dipt Chim, via P Bucci, cubo 15/c, IT-87030 Arcavacata di Rende, CS, Italy
J Mass Spectrom 2000 **35** (11) 1360

High-throughput screening of tocopherols in natural extracts (Letter)

Verdini RA, Lagier CM*// *Univ Nacl, Fac Ciencias Bioquim & Farmaceut, Dept Quim Analit, Suipacha 531, AR-2000 Rosario, Santa Fe, Argentina
J Agric Food Chem 2000 **48** (7) 2812

Voltammetric iodometric titration of ascorbic acid with dead-stop end-point detection in fresh vegetables and fruit samples

Ware GM, Chase GW, Eitenmiller RR, Long AR// US/FDA, SE Reg Lab, 60 Eight St NE, Atlanta, Ga 30309, USA
J AOAC Int 2000 **83** (4) 957

Determination of vitamin K₁ in medical foods by liquid chromatography with postcolumn reduction and fluorometric detection

Ye L, Landen WO, Eitenmiller RR*// *Univ Georgia, Dept Food Sci & Technol, Athens, Ga 30602, USA
J Agric Food Chem 2000 **48** (9) 4003

Liquid chromatographic analysis of all-*trans*-retinyl palmitate, β -carotene, and vitamin E in fortified foods and the extraction of encapsulated and nonencapsulated retinyl palmitate

Zhang ZQ, Jiang YC// Shaanxi Normal Univ, Dept Chem, CN-710062 Xian, Peoples Rep China
Atom Spectrosc 2000 **21** (3) 100

Flame atomic absorption spectrometry for the automatic indirect determination of ascorbic acid based on flow injection and reduction of chromate

7. Trace elements & minerals

Alves FL, Smichowski P, Farias S, Marrero J, Arruda MAZ// Univ Estadual Campinas, Dept Quim Analit, CP 6154, BR-13083-970 Campinas, SP, Brazil
J Brazil Chem Soc 2000 **11** (4) 365

Direct analysis of Antarctic krill by slurry sampling: Determination of copper, iron, manganese and zinc by flame atomic absorption spectrometry

Anderson DL// US/FDA, Elemental Res Branch, 200 C St SW, Washington, DC, USA
J Radioanal Nucl Chem 2000 **244** (1) 225

Neutron capture prompt γ -ray activation analysis of meat homogenates

Arafa EA, Bejey AM, Etwir FH, Das HA*// *Univ Amsterdam, Analyt Chem Lab, Nieuwe Achtergracht 166, NL-1018 WV Amsterdam, The Netherlands
J Trace Microprobe Tech 2000 **18** (3) 461

Determination of iodine and bromine in fish samples by radiochemical neutron activation analysis

Avino P, Carconi PL, Lepore L, Moauro A// Ist Super Prevenzione & Sicurezza Lavoro, via Fontana Candida 1, IT-00040 Monte Porzio Catone, Italy
J Radioanal Nucl Chem 2000 **244** (1) 247

Nutritional and environmental properties of algal products used in healthy diet by INAA and ICP-AES

Benzo Z, Murillo M, Marcano E, Gomez C, Garaboto A, Espinoza A// Inst Venezolano Invest Cient, Ctr Quim, Apdo 21827, VE-1020A Caracas, Venezuela
J Am Oil Chem Soc 2000 **77** (9) 997

Determination of phosphorus in edible oils by inductively coupled plasma-atomic emission spectrometry and oil-in-water emulsion of sample introduction

Bermejo-Barrera P, Moreda-Pineiro A, Muniz-Naveiro O, Gomez-Fernandez AMJ, Bermejo-Barrera A// Univ Santiago Compostela, Fac Chem, Dept Analyt Chem Nutr & Bromatol, Avda Ciencias s/n, ES-15706 Santiago de Compostela, Spain
Spectrochim Acta Pt B Atom Spect 2000 **55** (8) 1351

Optimization of a microwave-pseudo-digestion procedure by experimental designs for the determination of trace elements in seafood products by atomic absorption spectrometry

Bradley DA, Farquharson MJ// Univ Exeter, Sch Phys, Stocker Rd, Exeter EX4 4QL, England
J Radioanal Nucl Chem 2000 **244** (1) 213

X-ray fluorescence and the *in vivo* evaluation of Fe, Cu and Zn in skin

Chamberlain I, Adams K, Le S// US/EPA, Manchester Environm Lab, Reg 11, 7411 Beach Dr East, Port Orchard, Wa 98366, USA
Atom Spectrosc 2000 **21** (4) 118

ICP-MS determination of trace elements in fish

Chen CY, Lu XL, Zhang PQ, Hou XL, Chai ZF// Chinese Acad Sci, Inst High Energy Phys, POB 2732, CN-100080 Beijing, Peoples Rep China
J Radioanal Nucl Chem 2000 **244** (1) 199

Subcellular distribution patterns of twenty four elements in the human liver samples studied by molecular activation analysis

Contis ET// Eastern Michigan Univ, Coll Arts & Sci, Dept Chem, Ypsilanti, Mi 48197, USA
J Radioanal Nucl Chem 2000 **243** (1) 53

Use of nuclear techniques for the measurement of trace elements in food

Cornelis R// State Univ Ghent, Analyt Chem Lab, Proeftuinstr 86, BE-9000 Ghent, Belgium
J Radioanal Nucl Chem 2000 **244** (2) 255

Unique possibilities offered by radio-tracers for speciation analysis of trace elements in biological fluids and tissues

Costa RCC, Cardoso MI, Araujo AN*// *Univ Oporto, Fac Farm, CEQUP, Serv Quimicafis, Rua Anibal Cunha 164, PT-4050 Oporto, Portugal
Am J Enol Viticult 2000 **51** (2) 131

Metals determination in wines by sequential injection analysis with flame atomic absorption spectrometry

De Leonardis A, Macciola V, De Felice M// Univ Molise, Dipt Sci & Tecnol Agroalimentari Ambienta, via Sanctis, IT-86100 Campobasso, Italy
Int J Food Sci Technol 2000 **35** (4) 371

Copper and iron determination in edible vegetable oils by graphite furnace atomic absorption spectrometry after extraction with diluted nitric acid

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- Lin SY, Cheng YD// Vet Gen Hosp, Dept Med Res & Educ, Biopharmaceut Lab, Taipei, Taiwan
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Nandakumar R, Nandakumar MP, Mattiasson B*// *Lund Univ, Dept Biotechnol, Ctr Chem & Chem Engn, PO Box 124, SE-22100 Lund, Sweden
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Nikolelis DP, Pantoulis S// Univ Athens, Dept Chem, Lab Anal Chem, Panepistimiopolis-Kouponia, GR-15771 Athens, Greece
Electroanalysis 2000 **12** (10) 786

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Surareungchai W, Kasiwat D// King Mongkut's Univ Technol Thonburi, Pilot Plant Dev & Training Inst, Sch Bioresources & Technol, Toongkru, TH-10140 Bangkok, Thailand
Electroanalysis 2000 **12** (14) 1124

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Thompson RD, Carlson M// 1425 West 28th St, Minneapolis, Mn 55408, USA
J AOAC Int 2000 **83** (4) 847

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Wang J, Sporns P*// *Univ Alberta, Dept Agr Food & Nutr Sci, Edmonton, Alberta, Canada T6G 2P5
J Agric Food Chem 2000 **48** (7) 2807

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Andriot I, Harrison M, Fournier N, Guichard E// Inst Natl Rech Agron, Rech Aromes Lab, 17 rue Sully, FR-21065 Dijon, France

J Agric Food Chem 2000 **48** (9) 4246

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Boscolo M, Bezerra CWB, Cardoso DR, Neto BSL, Franco DW*// *Univ Sao Paulo, Inst Quim Sao Carlos, Avda Dr Carlos Botelho 1465, CP 780, BR-13560-970 Sao Carlos, SP, Brazil
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Ellis PC, Pivarnik LF, Thiam M// Rhode Isl Dept Hlth Labs, 50 Orms St, Providence, RI 02904, USA
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Ferreira V, Lopez R, Cacho JF// Univ Zaragoza, Fac Sci, Dept Analyt Chem, ES-50009 Zaragoza, Spain
J Sci Food Agric 2000 **80** (11) 1659

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Goodner KL, Jella P, Rouseff RL// USDA/ARS, US Citrus & Subtrop Prod Lab, 600 Ave Sth NW, Winter Haven, FL 33881, USA
J Agric Food Chem 2000 **48** (7) 2882

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Izco JM, Torre P// Univ Publ Navarra, Dept Ciencias Medio Natural, Area Nutr & Bromatol, Campus Arrosadia s/n, ES-31006 Pamplona, Spain
Food Chem 2000 **70** (3) 409

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Kilcast D, Portmann MO, Byrne BE// Leatherhead Food Res Assoc, Sensory & Consumer Sci, Randalls Road, Leatherhead KT22 7RY, England

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Luque M, Rios A, Valcarcel M// Univ Cordoba, Fac Sci, Div Analyt Chem, Campus Rabanales Anexo, Edificio C3, E-14071 Cordoba, Spain
Analyst 2000 **125** (10) 1805

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Olsson J, Borjesson T, Lundstedt T, Schnurer J// Swedish Univ Agr Sci, Dept Microbiol, POB 7025, SE-75007 Uppsala, Sweden
Int J Food Microbiol 2000 **59** (3) 167

Volatiles for mycological quality grading of barley grains: Determinations using gas chromatography-mass spectrometry and electronic nose

Reichert S, Fischer D, Asche S, Mosandl A*// *Johan Wolfgang Goethe-Univ, Inst Lebensmittelchem, Marie-Curie Str 9, DE-60439 Frankfurt/Main, Germany
Flavour Fragr J 2000 **15** (5) 303

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Sarrazin C, Le Quere JL, Gretsche C, Liardon R// Nestle PTC Ctr Orbe, CH-1350 Orbe, Switzerland
Food Chem 2000 **70** (1) 99

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Schaller E, Bosset JO*, Escher F// *Fed Dairy Res Stn, CH-3003 Bern, Switzerland
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Seljasen R, Bengtsson GB, Skrede G, Vogt G// MATFORSK-Norwegian Food Res Inst, Osloveien 1, NO-1430 As, Norway
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Flavour Fragr J 2000 **15** (4) 245

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Tominaga T, Dubourdiou D// Univ Bordeaux 2, Fac Enol, 351 Cours Liberation, FR-334-5 Talence, France
J Agric Food Chem 2000 **48** (7) 2874

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Villasenor MJ, Valero E, Sanz J, Castro IM// Univ Castilla La Mancha, Dept Quim Analit & Tecnol Alimentos, ES-13071 Ciudad Real, Spain
Milchwissenschaft 2000 **55** (7) 378

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Anastasi G, Antonelli ML*, Biondi A, Vinci G// *Univ Roma La Sapienza, Dept Chem, Ple Aldo Moro 5, IT-00185 Rome, Italy

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Ishikuro E, Hibino H, Soga T, Yanai H, Sawada H// Minist Agr Forestry & Fisheries, Sendai Fertilizer & Food Inspect Stn, Miyagino ku, 1-3-15 Gorin, Sendai, Miyagi 983 0842, Japan
J Food Hyg Soc Jpn 2000 **41** (4) 261

Simultaneous determination of 8 kinds of organic acids in formula feed by capillary electrophoresis (Japanese, English Abstract)

Kvasnicka F, Voldrich M// Inst Chem Technol, Dept Food Preservat & Meat Technol, Technicka 5, CZ-16628 Prague, Czech Republic
J Chromatogr A 2000 **891** (1) 175

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Maines A, Prodromidis MI, Tzouvara-Karayanni SM, Karayannis MI*, Ashworth D, Vadgama P// *Univ Ioannina, Dept Chem, GR-45110 Ioannina, Greece

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Sanz Vicente I, Cabredo S, Galban J// Univ Zaragoza, Fac Ciencias, Dept Quim Analit, ES-50009 Zaragoza, Spain

Mikrochim Acta 2000 **134** (3-4) 199

Determination of acetic acid in vinegar by gas phase molecular absorption spectrometry after methyl acetate generation

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J Food Prot 2000 **63** (9) 1248

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Beutling D, Schlenker H, Neumann A// Free Univ Berlin, Fac Med Vet, Inst Fleischhyg & Technol, Luisenstr 56, DE-10117 Berlin, Germany

Fleischwirtschaft 2000 **80** (8) 97

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Ferreira IMPLVO, Mendes E, Marques J, Ferreira MA*// *Fac Farm Up, CE-QUP, Serv Bromatol, Rua Anibal Cunha 164, PT-4050 Oporto, Portugal

J Liq Chromatogr Relat Technol 2000 **23** (13) 2057

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Galvani M, Hamdan M*, Righetti PG// GlaxoWellcome Med Res Ctr, via Fleming 4, Verona, Italy

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Gaucheron F, Le Graet Y// INRA, Lab Rech Technol Laitiere, 65 rue St Briec, FR-35042 Rennes, France

J Chromatogr A 2000 **893** (1) 133

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Jenkins DM, Delwiche MJ*, De Peters EJ, Bon Durant RH// *Univ Calif Davis, Dept Biol & Agr Engr, Davis, Ca 95616, USA

J Dairy Sci 2000 **83** (9) 2042

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Kelley LC, Hafner S, McCaskey PC, Sutton MT, Langheirich KA// USDA/ARS, Poultry Microbiol Safety Res Unit, Russell Res Ctr, POB 5677, Athens, Ga 30613, USA

J Food Prot 2000 **63** (8) 1107

An evaluation of methods for the detection of spinal cord in product derived from advanced meat recovery systems

Kvasnicka F, Voldrich M// Inst Chem Technol, Dept Food Preservat & Meat Technol, Technicka 5, CZ-16628 Prague 6, Czech Republic

Electrophoresis 2000 **21** (14) 2848

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Laurent W, Bonny JM, Renou JP*// *SRV/STIM, INRA Theix, FR-63122 Saint-Genes-Champanelle, France

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J Agric Food Chem 2000 **48** (7) 2829

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Paradkar MM, Singhal RS, Kulkarni PR// Univ Mumbai, Dept Chem Technol, Food & Fermentat Technol Div, IN-400019 Matunga, Mumbai, India

Int J Dairy Technol 2000 **53** (3) 87

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Poser R, Detsch R, Fischer K, Muller WD, Behrschmidt M, Schwagele F// Bundesanstalt Fleischforsch, Inst Technol, EC Baumann Str 20, DE-95326 Kulmbach, Germany

Fleischwirtschaft 2000 **80** (8) 87

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Rodbotten R, Nilsen BN, Hildrum KI// MATFORSK, Osloveien 1, NO-1430 As, Norway

Food Chem 2000 **69** (4) 427

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Stefaniak T, Chrzanowska J, Nikolajczuk M// ul Gen Abrahama 41, PL-52211 Wroclaw, Poland

Med Veter 2000 **56** (8) 505

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Swatland HJ// Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

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Tomberg E, Wahlgren M, Brondum J, Engelsen SB// Swedish Meats R&D, PO Box 504, SE-22424 Kavlinge, Sweden

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Akwaowo EU, Ndon BA*, Etuk EU// *Univ Uyo, Dept Agron, PMB 1017, Uyo, Nigeria

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Amakura Y, Okada M, Tsuji S, Tonogai Y// Natl Inst Hlth Sci, Osaka Branch, Chuo ku, 1-1-43 Hoenzaka, Osaka 540 0006, Japan

J Chromatogr A 2000 **891** (1) 183

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Bendriss EK, Markoglu N, Wainer IW*// *McGill Univ, Dept Oncol, Pharmacokinetic Div, Montreal, Quebec, Canada

J Chromatogr B 2000 **746** (2) 331

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Beveridge T, Loubert E, Harrison JE// Agr & Agri-Food Canada, Pacific Agri-Food Res Ctr, Summerland, Brit Columbia, Canada V0H 1Z0

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Biosens Bioelectron 2000 **15** (5-6) 257

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J Liq Chromatogr Relat Technol 2000 **23** (13) 2047

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Croley TR, Hughes RJ, Metcalfe CD, March RE*// Trent Univ, Dept Chem, 1600 West Bank Dr, Peterborough, Ontario, Canada K9J 7B8

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Da Silva KDP, Collares FP*, Finzer JRD// *UNICAMP, Fac Engr Quim/

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