

Bibliography of analytical, nutritional and clinical methods

(4 weeks journals. Search completed at 21st. Aug. 2002)

1. Books, reviews & symposia

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Analyst 2002 **127** (6) 859

Report by the Analytical Methods Committee: Nitrogen factors for turkey meat

Hopkins DL, Thompson JM// NSW Agr, POB 129, Cowra, NSW 2794, Australia

J Muscle Foods 2002 **13** (2) 81

The degradation of myofibrillar proteins in beef and lamb using denaturing electrophoresis: An overview

Vlasov Y, Legin A*, Rudnitskaya A// *St Petersburg State Univ, Dept Chem, Universitetskaya Nab 7-9, RU-199034 St Petersburg, Russia

Anal Bioanal Chem 2002 **373** (3) 136

Electronic tongues and their analytical application (Review)

2. General

Celedon A, Aguilera JM*// *Pontificia Univ Catolica Chile, Dept Ingn Quim & Bioproc, POB 306, Santiago 22, Chile

Food Sci Technol Int 2002 **8** (2) 101

Applications of microprobe Raman spectroscopy in food science

Lloyd SW, Grimm CC// USDA/ARS, Sthn Reg Res Ctr, 1100 Robert E Lee Blvd, New Orleans, La 70124, USA

J Chromatogr Sci 2002 **40** (6) 309

Fast temperature-programmed gas chromatography-mass spectrometry for food analysis

Pravdova V, Boucon C, De Jong S, Walczak B, Massart DL*// *Free Univ Brussels, Chemoac, FABI, Laarbeeklaan 103, B-1090 Brussels, Belgium

Anal Chim Acta 2002 **462** (2) 133

Three-way principal component analysis applied to food analysis: An example

3. Amino acids, proteins & enzymes

Boniglia C, Carratu B, Sanzini E*// *Ist Super Sanita, Viale Regina Elena 299, IT-00161 Rome, Italy

J Food Sci 2002 **67** (4) 1352

Enantiomer separation of D-L branched amino acids by capillary electrophoresis in sport nutritional supplements

Curtis JM, Dennis D, Waddell DS, MacGillivray T, Ewart HS// Ocean Nutr Canada Ltd, 1721 Lower Water St, Halifax, Nova Scotia, Canada B3J 1S5

J Agric Food Chem 2002 **50** (14) 3919

Determination of angiotensin-converting enzyme inhibitory peptide Leu-Lys-Pro-Asn-Met (LKPNM) in bonito muscle hydrolysates by LC-MS/MS

Ezeagu IE, Petzke JK, Metges CC, Akinsoyinu AO, Ologhobo AD// Univ Ibadan, Anim Sci Dept, Nutr Biochem Div, Ibadan, Nigeria

Food Chem 2002 **78** (1) 105

Seed protein contents and nitrogen-to-protein conversion factors for some uncultivated tropical plant seeds

Fontaine J, Schirmer B, Horr J// Degussa AG, Feed Addit Div, Appl Technol, POB 1345, DE-63403 Hanau, Germany

J Agric Food Chem 2002 **50** (14) 3902

Near-infrared reflectance spectroscopy (NIRS) enables the fast and accurate prediction of essential amino acid contents. II. Results for wheat, barley, corn, triticale, and wheat bran/middlings, rice bran, and sorghum

Hosseini-Nia T, Ismail AA, Kubow S*// *McGill University, Sch Diet & Human Nutr, MacDonald Campus, St Anne de Bellevue, Quebec, Canada H9X 3V9

J Food Sci 2002 **67** (4) 1341

Effect of high hydrostatic pressure on the secondary structures of BSA and apo- and holo- α -lactalbumin employing Fourier transform infrared spectroscopy

Kaminarides SE, Koukiassa P// Agr Univ Athens, Dept Food Sci Technol, 75 Iera Odos, GR-11855 Athens, Greece

Food Chem 2002 **78** (1) 53

Detection of bovine milk in ovine yoghurt by electrophoresis of *para*- κ -casein

Rodriguez-Delgado MA, Malovana S, Montelongo FJ, Cifuentes A// Univ La Laguna, Dept Analyt Chem Nutr & Food Sci, Avda Trinidad s/n, ES-38071 Tenerife, Spain

Eur Food Res Technol 2002 **214** (6) 536

Fast analysis of proteins in wines by capillary gel electrophoresis

4. Carbohydrates

Paradkar MM, Irudayaraj J*, Sakhamuri S// *227 Agr Engr Bldg, University Park, Pa 16802, USA

Appl Eng Agric 2002 **18** (3) 379

Discrimination and classification of beet and cane sugars and their inverts in maple syrup by FT-Raman

Rajendran V, Irudayaraj J*// *Penn State Univ, Dept Agr & Biol Engr, 227 Agr Engr Bldg, University Park, Pa 16802, USA

J Dairy Sci 2002 **85** (6) 1357

Detection of glucose, galactose, and lactose in milk with a microdialysis-coupled flow injection amperometric sensor

Walford SN// Univ Natal, Sugar Milling Res Inst, ZA-4041 Durban, Rep Sth Africa

J Chromatogr A 2002 **956** (1-2) 187

Applications of ion chromatography in cane sugar research and process problems

5. Lipids

Gambacorta G, Storelli M, Liuzzi V, La Notte E// Univ Foggia, Ist Prod & Preparaz Alimentari, via Napoli 25, IT-71100 Foggia, Italy

Ital J Food Sci 2002 **14** (1) 59

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Hwang KT, Cuppett SL, Weller CL*, Hanna MA// *Univ Nebraska, Dept Biol Syst Engr, 210 LW Chase Hall, Lincoln, Ne 68583, USA

J Sep Sci 2002 **25** (9) 619

HPLC of grain sorghum wax classes highlighting separation of aldehydes from wax esters and steryl esters

Malik V, Pundir CS*// *Maharshi Dayanand Univ, Dept Biosci, Biochem Res Lab, IN-124001 Rohtak, Haryana, India

Biotechnol Appl Biochem 2002 **35** (3) 191

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.

Determination of total cholesterol in serum by cholesterol esterase and cholesterol oxidase immobilized and co-immobilized on to arylamine glass

Ozen BF, Mauer LJ*// *Purdue Univ, Dept Food Sci, 1160 Food Sci Bldg, West Lafayette, IN 47907, USA
J Agric Food Chem 2002 **50** (14) 3898

Detection of hazelnut oil adulteration using FT-IR spectroscopy

Sato T, Takahashi M, Matsunaga R// Natl Agr Res Org, Natl Agr Res Ctr, Kyushu Okinawa Reg, Kumamoto 861 1192, Japan
J Am Oil Chem Soc 2002 **79** (6) 535

Use of NIR spectroscopy for estimation of FA composition of soy flour

Torres AG, Trugo NMF, Trugo LC*// *Univ Fed Rio de Janeiro, Dept Bioquim, Inst Quim, Lab Bioquim Nutr & Alimentos, CT, Bloco A, Lab 528, BR-21949-900 Rio de Janeiro, Brazil
J Agric Food Chem 2002 **50** (15) 4156

Mathematical method for the prediction of retention times of fatty acid methyl esters in temperature-programmed capillary gas chromatography

6. Vitamins & co-factors

Arcot J, Shrestha AK, Gusanov U// Univ New Sth Wales, Dept Food Sci & Technol, Sydney, NSW 2052, Australia
Food Control 2002 **13** (4-5) 245

Enzyme protein binding assay for determining folic acid in fortified cereal foods and stability of folic acid under different extraction conditions

Chandrasekhar U, Kowsalya S// Deemed Univ, Avinashilingam Inst Home Sci & Higher Educ Women, Dept Food Sci & Nutr, IN-641043 Coimbatore, Tamil Nadu, India
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Development of methods for the determination of vitamins A, E and β -carotene in processed foods based on supercritical fluid extraction: A collaborative study

McCaffery P, Evans J, Koul O, Volpert A, Reid K, Ullman MD// Univ Massachusetts, EK Shriver Ctr, Waltham, Ma, USA
J Lipid Res 2002 **43** (7) 1143

Retinoid quantification by HPLC/MS*

Ndaw S, Bergaentzle M, Aoude-Werner D, Hasselmann C*// *Fac Pharm, Lab Chim Anal & Sci Aliment - UMR 7512, 74 Route du Rhin, FR-67400 Illkirch, France
Food Chem 2002 **78** (1) 129

Enzymatic extraction procedure for the liquid chromatographic determination of niacin in foodstuffs

O'Broin S, Gunter E// St James Hospital, Dept Haematol, Dublin 8, Rep Ireland
Clin Chem 2002 **48** (7) 1128

Dried-serum spot assay for folate

Ono M, Idei N, Nakajima T, Itoh Y, Kawakami N, Shimada K, Yamato S*// *Taisho Pharmaceut Co Ltd, Self-Medication Labs, Analyt Lab, Omiya, Saitama 330 8530, Japan
J Pharmaceut Biomed Anal 2002 **29** (1-2) 325

Simultaneous determination of riboflavin phosphate and other ingredients in a multivitamin pharmaceutical preparation by on-line automated LC coupled with pre-column immobilized enzyme reactor

Paim APS, Almeida CMNV, Reis BF*, Lapa RAS, Zagatto EAG, Lima JLFC// *Univ Sao Paulo, Ctr Energia Nucl Agr, Avda Contenario 303, POB 96, BR-13400-970 Piracicaba, Sao Paulo, Brazil
J Pharmaceut Biomed Anal 2002 **28** (6) 1221

Automatic potentiometric flow titration procedure for ascorbic acid determination in pharmaceutical formulations

Ramadan MF, Morsel JT// Tech Univ Berlin, Inst Food Chem, Gustav Meyer Allee 25, TIB 4/3-1, DE-13355 Berlin, Germany
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Suturovic ZJ, Marjanovic NJ// Fac Technol, Dept Appl Chem, Blvd Cara Lazara 1, YU-21000 Novi Sad, Yugoslavia
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Zhang CX, Qi HL// Shaanxi Normal Univ, Sch Chem & Mat Sci, Dept Chem, CN-710062 Xian, Peoples Rep China
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Brisbin JA, Caruso JA*// *Univ Cincinnati, Dept Chem, Mail Locator 0172, Cincinnati, Oh 45221, USA
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Comparison of extraction procedures for the determination of arsenic and other elements in lobster tissue by inductively coupled plasma mass spectrometry

Bruhn CG, Campos VH, Diaz VP, Cid HJ, Nobrega JA// Concepcion Univ, Fac Farm, Dept Anal Instrumental, POB 237, Concepcion, Chile
Bol Soc Chil Quim 2002 **47** (2) 123

Determination of Cd in mussels and non-fat milk powder by flow injection: Flame atomic absorption spectrophotometry (FI-FAAS) with on-line extraction by a chelating resin

Carrilho ENVM, Gonzalez MH, Nogueira ARA, Cruz GM// Embrapa, Pecuarua Sudeste, CP 339, BR-13560-970 Sao Carlos, SP, Brazil
J Agric Food Chem 2002 **50** (15) 4164

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Chan WH, Lee AWM, Lam YS, Lu JZ// Hong Kong Baptist Univ, Dept Chem, Kowloon, Hong Kong, Peoples Rep China
Microchem J 2002 **72** (2) 201

A sodium ion selective optode based on fluorescein octadecyl ether octadecyl ester and application in beverage and urine assay

Garcia P, Romero C, Brenes M, Garrido A*// *CSIC, Dept Food Biotechnol, Inst Grasa, Apdo 1078, ES-41012 Seville, Spain
J Agric Food Chem 2002 **50** (13) 3654

Validation of a method for the analysis of iron and manganese in table olives by flame atomic absorption spectrometry

Ho CY, Jiang SJ*// Natl Sun Yat Sen Univ, Dept Chem, Kaohsiung 80424, Taiwan
J Anal Atom Spectrom 2002 **17** (7) 688

Determination of Cr, Zn, Cd and Pb in milk powder by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry

Kristol J, Veber M, Slekovec M// Fac Agr, Vrbanska 30, SI-2000 Maribor, Slovenia
Anal Bioanal Chem 2002 **373** (3) 200

The application of ETAAS to the determination of Cr, Pb and Cd in samples taken during different stages of the winemaking process

Lima MJR, Fernandes SMV, Rangel AOSS*// *Univ Catolica Portuguesa, Escola Super Biotecnol, R Dr Antonio Bernardino Almeida, PT-4200-072 Oporto, Portugal
Ital J Food Sci 2002 **14** (1) 9

Colorimetric determination of phosphorus in milk by flow injection analysis using a thermal/UV induced digestion

Santos D, Barbosa F, Tomazelli AC, Krug FJ*, Nobrega JA, Arruda MAZ// *USP, Ctr Energia Nucl Agr, Caixa Postal 96, BR-13400-970 Piracicaba, SP, Brazil
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Microchem J 2002 **72** (2) 221

Determination of essential metals in complete diet feed by flow injection and flame atomic absorption spectrometry

8. Drug, biocide & processing residues

Brito NM, Navickiene S, Polese L, Jardim EFG, Abakerli RB, Ribeiro ML*// *Univ Estadual Paulista, Inst Quim, Dept Quim Organ, CP 355, BR-14800-900 Araraquara, SP, Brazil
J Chromatogr A 2002 **957** (2) 201

Determination of pesticide residues in coconut water by liquid-liquid extraction and gas chromatography with electron-capture plus thermionic specific detection and solid-phase extraction and high-performance liquid chromatography with ultraviolet detection

Cherlet M, Croubels S, De Backer P// Ghent Univ, Fac Vet Med, Dept Pharm-

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J Mass Spectrom 2002 **37** (8) 848
 Determination of clindamycin in animal plasma by high-performance liquid chromatography combined with electrospray ionization mass spectrometry

Croubels S, De Baere S, Cherlet M, De Backer P// Ghent Univ, Fac Vet Med, Dept Pharmacol Pharm & Toxicol, Salisburylaan 133, BE-9820 Merelbeke, Belgium
J Mass Spectrom 2002 **37** (8) 840
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Ferguson JP, Baxter GA, McEvoy JDG, Stead S, Rawlings E, Sharman M// Xenosense Ltd, 10 Malone Rd, Belfast BT9 5BN, Northern Ireland
Analyst 2002 **127** (7) 951
 Detection of streptomycin and dihydrostreptomycin residues in milk, honey and meat samples using an optical biosensor

Furusawa N// Osaka City Univ, Grad Sch Human Life Sci, Osaka 558 8585, Japan
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 Simplified high-performance liquid chromatographic determination of residual amprolium in edible chicken tissues

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J Chromatogr B 2002 **774** (1) 39
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J Agric Food Chem 2002 **50** (14) 3912
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Mauldin RE, Primus TM, Volz SA, Kimball BA, Johnston JJ, Cummings JL, York DL// USDA, Anim & Plant Hlth Inspect Serv, Natl Wildlife Res Ctr, 4101 Laporte Ave, Fort Collins, Co 80521, USA
J Agric Food Chem 2002 **50** (13) 3632
 Determination of anthraquinone in technical material, formulations, and lettuce by high performance liquid chromatography

Meenagh SA, McEvoy JDG, Elliott CT// Dept Agr & Rural Dev, Vet Sci Div, Stoney Rd, Belfast BT4 3SD, Northern Ireland
Anal Chim Acta 2002 **462** (2) 149
 Determination of carazolol residues in porcine tissue by radioreceptor assay

Rosen J, Hellenas KE// Natl Food Adm Toxicol Lab, Box 622, SE-75126 Uppsala, Sweden
Analyst 2002 **127** (7) 880
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J Mass Spectrom 2002 **37** (8) 812
 Multistep mass spectrometry of heterocyclic amines in a quadrupole ion trap mass analyser

Van Rhijn JA, Lasaroms JJP, Berendsen BJA, Brinkman UAT// State Inst Qual Control Agr Prod, Bornsesteeg 45, POB 230, NL-6700 AE Wageningen, The Netherlands
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 Simultaneous analysis of organophosphorus and organochlorine pesticides in animal fat by gas chromatography with pulsed flame photometric and micro-electron capture detectors

9. Toxins

Beyer K, Bardina L, Grishina G, Sampson HA// Mt Sinai Sch Med, Div Pediat Allergy & Immunol, 1 Gustave L Levy Pl, New York, NY 10029, USA
J Allergy Clin Immunol 2002 **110** (1) 154
 Identification of sesame seed allergens by 2-dimensional proteomics and Edman sequencing: Seed storage proteins as common food allergens

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 Screening 34 peanut introductions for allergen content using ELISA

Horie M, Kobayashi S, Shimizu N, Nakazawa H// Saitama Prefectural Inst Publ Hlth, 639-1 Kamiokubo, Saitama 338 0824, Japan
Analyst 2002 **127** (6) 755
 Determination of tetrodotoxin in puffer-fish by liquid chromatography-electrospray ionization mass spectrometry

Pottier I, Vernoux JP*, Jones A, Lewis RJ// *Univ Caen, Lab Microbiol Alimentaire, Esplanade Paix, FR-14032 Caen, France
Toxicon 2002 **40** (7) 929
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Romero R, Jonsson JA, Gazquez D*, Bagur MG, Sanchez-Vinas M// *Univ Granada, Fac Sci, Dept Analyt Chem, ES-18071 Granada, Spain
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 Multivariate optimization of supported liquid membrane extraction of biogenic amines from wine samples prior to liquid chromatography determination as dabsyl derivatives

Sibanda L, De Saeger S, Van Peteghem C// TOXI-TEST, Harelbekestr 72, BE-9000 Ghent, Belgium
J Chromatogr A 2002 **959** (1-2) 327
 Optimization of solid-phase clean-up prior to liquid chromatographic analysis of ochratoxin A in roasted coffee

10. Additives

Chou SS, Lin YH, Cheng CC, Hwang DF// Natl Labs Foods & Drugs, Dept Hlth, Taipei, Taiwan
J Food Sci 2002 **67** (4) 1314
 Determination of synthetic colors in soft drinks and confectioneries by micellar electrokinetic capillary chromatography

Huang HY, Shih YC, Chen YC// Chung Yuan Christian Univ, Dept Chem, Chungli 320, Taiwan
J Chromatogr A 2002 **959** (1-2) 317
 Determining eight colorants in milk beverages by capillary electrophoresis

Itakura Y, Ozeki N, Oka H*, Ito Y, Ueno E, Goto T, Hayashi T, Ohno H, Sasaki Y, Mukoyama M, Matsumoto H, Nagase H// *Aichi Prefectural Inst Publ Hlth, Kita ku, 7-6 Nagare, Tsuji machi, Nagoya, Aichi 462 8576, Japan
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Jayaprakasha GK, Rao LJM, Sakariah KK*// *Cent Food Technol Res Inst, IN-570013 Mysore, India
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 Comparison of ion-pairing and ion-suppressing liquid chromatographic methods for the determination of pyrimethamine and ormetoprim in chicken feed

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 A rapid gas chromatographic method for direct determination of BHA, BHT and TBHQ in edible oils and fats

11. Flavours & aromas

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 Determination of monoterpene hydrocarbons and alcohols in *Majorana hortensis* Moench by micellar electrokinetic capillary chromatography
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J Chromatogr A 2002 **956** (1-2) 201
 Qualitative analysis of some carboxylic acids by ion-exclusion chromatography with atmospheric pressure chemical ionization mass spectrometric detection

13. Animal products

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- Colombo F, Marchisio E, Cantoni C// Univ Milan, Dipt Sci & Tecnol Vet Sicurezza Alimentare, via A Grasselli 7, IT-20137 Milan, Italy
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- Lahiff S, Glennon M, Lyng J, Smith T, Shilton N, Maher M*// *Univ Coll Galway, BioResearch Ireland, Natl Diagnost Ctr, Galway, Rep Ireland
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 Real-time polymerase chain reaction detection of bovine DNA in meat and

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- Mabrook MF, Petty MC*// *Univ Durham, Sch Engr, South Rd, Durham DH1 3LE, England
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14. Plant & microbial products

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- Gokmen V, Bahceci S, Acar J// Hacettepe Univ, Dept Food Engr, TR-06532 Ankara, Turkey
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- Mattila P, Kumpulainen J// MTT Agrifood Res Finland, Food Res, FI-31600 Jokioinen, Finland
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