

Bibliography of analytical, nutritional and clinical methods

(5 weeks journals - Search completed at 14th May 1997)

1 BOOKS, REVIEWS & SYMPOSIA

Amer J Clin Nutr 1997 65 (4)
Special issue: Second International Conference on Dietary Assessment Methods - Proceedings of a Symposium held in Boston, Ma, USA, January 22-24, 1995

Buckee GK// BRF Int, Surrey RH1 4HY, England
J Inst Brew 1997 103 (2) 115
The current status of analytical methods in the brewing industry (Laurence Bishop Memorial Lecture)

Dorsch W// Schonstr 73B, D-81543 Munich, Germany
Phytomedicine 1997 3 (4) 391
Allium cepa L (onion). II. Chemistry, analysis and pharmacology (Review)

Robards K, Antolovich M// Charles Sturt Univ, POB 588, Wagga Wagga, NSW 2678, Australia
Analyst 1997 122 (2) R11
Analytical chemistry of fruit bioflavonoids (Review)

Sherma J// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA
J AOAC Int 1997 80 (2) 283
Current status of pesticide residue analysis

Taylor A// Univ Surrey, Roben's Inst Hlth & Safety, Trace Elements Lab, Guildford GU2 5XH, Surrey, England
Ann Clin Biochem 1997 34 (2) 142
Measurement of zinc in clinical samples (Review)

Van den Heuvel EGHM, Van Dokkum W, Schaafsma G// TNO, Nutr & Food Res Inst, POB 360, NL-3700 AJ Zeist, The Netherlands
Food Rev Int 1997 13 (1) 91
Methods to measure iron absorption in humans: A review

Worwood M// Univ Wales Coll Med, Dept Haematol, Heath Pk, Cardiff CF4 1XN, Wales
Clin Chim Acta 1997 259 (1-2) 3
The laboratory assessment of iron status - An update (Review)

2 GENERAL

Grassi G, Magnani R, Roncuzzi L// Ist Sperimentale Colture Ind, Via Corticella 133, I-40129 Bologna, Italy
Ital J Food Sci 1997 9 (1) 71
Evaluation of the content of benzodiazepine-like molecules in some foods

3 AMINO ACIDS, PROTEINS & ENZYMES

Bon MAM, Veer GV, Vermes I*// *Med Spectrum Twente, Dept Clin Chem, Postbus 50000, NL-7500 KA Enschede, The Netherlands
J Clin Ligand Assay 1996 19 (4) 242
A time resolved immunofluorometric assay for measuring lipoprotein(a) levels in serum

Connell A, Calder AG, Anderson SE, Lobley GE*// *Rowett Res Inst, Aberdeen AB21 9SB, Scotland
Brit J Nutr 1997 77 (2) 255
Hepatic protein synthesis in the sheep: Effect of intake as monitored by use of stable-isotope labelled glycine, leucine and phenylalanine

El-Haddad L, Aussenac T, Fabre JL*, Sarrafi A// *ESA Purpan, Lab Physiol Vegetale, F-31076 Toulouse, France
J Sci Food Agr 1997 73 (4) 477
RP-HPLC determination of the SDS-unextractable protein fraction com-

position during the ripening period for the common wheat cultivar Soissons

Ferreira IMPLVO, Nunes MV, Mendes E, Remiao F, Ferreira MA// Univ Oporto, CEQUP, Rua Anibal Cunha 164, P-4050 Oporto, Portugal
J Liq Chromatogr Relat Technol 1997 20 (8) 1269
Development of an HPLC-UV method for determination of taurine in infant formulae and breast milk

Ferreira M, Hofer C, Raemy A// Escola Super Biotecnol, Rua Dr Antonio Bernardino Almeida, P-4200 Oporto, Portugal
J Therm Anal 1997 48 (3) 683
A calorimetric study of egg white proteins

Furuichi Y, Taniguchi J, Murabayashi J// Mie Univ, Dept Agr Chem, Tsu, Mie 514, Japan
Nippon Nogiekagaku Kaishi 1997 71 (4) 395
A rapid and convenient method for the determination of amide in food proteins (Japanese, English Abstract)

Gomez LS, Rojas G// Inst Angiol & Vasc Surg, Dept Expt Biochem, Havana, Cuba
Clin Chim Acta 1997 260 (1) 65
A simple visual immunoassay (VIA) for rapid identification of high lipoprotein(a) blood levels

Gonzalez-Castro MJ, Lopez-Hernandez J*, Simal-Lozano J, Oruna-Conch MJ// *Univ Santiago de Compostela, Dept Quim Anal Nutr & Bromatol, Santiago de Compostela, Spain
J Chromatogr Sci 1997 35 (4) 181
Determination of amino acids in green beans by derivatization with phenylisothiocyanate and high-performance liquid chromatography with ultraviolet detection

Hironaka T, Ohishi H, Masaki T// Tokyo Univ Agr & Technol, United Grad Sch, 3-5-8 Saiwaicho, Fuchu, Tokyo 13, Japan
J Dairy Sci 1997 80 (3) 488
Identification and partial purification of a basic fibroblast growth factor-like growth factor derived from bovine colostrum

House JD, Pencharz PB, Ball RO*// *Univ Guelph, Dept Anim & Poultry Sci, Guelph, Ontario, Canada N1G 2W1
Amer J Clin Nutr 1997 65 (4) 984
Phenylalanine requirements determined by using L-[1-¹⁴C]phenylalanine in neonatal piglets receiving total parenteral nutrition supplemented with tyrosine

Knipping G, Gogg-Fassolter G, Frohnwieser B, Krempler F, Kostner GM, Malle E// Karl Franzens Univ Graz, Inst Med Biochem, Harrachgasse 21, A-8010 Graz, Austria
J Immunol Method 1997 202 (1) 85
Quantification of apolipoprotein D by an immunoassay with time-resolved fluorescence spectroscopy

Landry J// INRA, Chim Biol Lab, INA, PG, F-78850 Thiverval Grignon, France
Cereal Chem 1997 74 (2) 188
Comparison of extraction methods for evaluating zein content of maize grain

Metges CC, Petzke KJ// MIT, Clin Res Ctr, 40 Ames St, Cambridge, Ma 02142, USA
Anal Biochem 1997 247 (1) 158
Measurement of ¹⁵N/¹⁴N isotopic composition in individual plasma free amino acids of human adults at natural abundance by gas chromatography combustion isotope ratio mass spectrometry

Nakatsu S, Nomura T, Imai T// Hokkaido Cent Agr Expt Stn, Naganuma, Hokkaido 06913, Japan
Jpn J Crop Sci 1997 66 (1) 35

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.

A rapid and convenient method for α -amylase analysis of wheat by an auto-analyzer and its application to estimation of maximum amylograph viscosity (Japanese, English Abstract)

Nicolas Y, Larre C, Popineau Y*// *INRA, Lab Biochim & Technol Prot, rue Gerardièrre, BP 1627, F-44316 Nantes 03, France
J Cereal Sci 1997 25 (2) 151

A method for the isolation of high M_r subunits of wheat glutenin

Ogawa K, Ijima Y, Guo WF, Watanabe N, Usui T, Dong SS, Tong QQ, Sakata K*// *Univ Shizuoka, Dept Appl Biol Chem, Shizuoka 422, Japan
J Agr Food Chem 1997 45 (3) 877

Purification of a β -primeverosidase concerned with alcoholic aroma formation in tea leaves (cv Shuixian) to be processed to Oolong tea

Proctor SD, Mamo JCL*// *Univ Western Australia, Dept Physiol, Stirling Highway, Nedlands, WA 6907, Australia
J Lipid Res 1997 38 (2) 410

Separation and quantitation of apolipoprotein B-48 and other apolipoproteins by dynamic sieving capillary electrophoresis

Richter W, Krause I*, Graf C, Sperrer I, Schwarzer C, Klostermeyer H// *Tech Univ Munich, Forschungszentrum Milch & Lebensmittel, Vottinger Str 45, D-85350 Freising, Germany
Z Lebensm Unters Forsch A-Food Res 1997 204 (1) 21

An indirect competitive ELISA for the detection of cow's milk and caseinate in goat's and ewe's milk and cheese using polyclonal antibodies against bovine γ -caseins

Sinha NK, Yamamoto H, Ng PKW*// *Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, MI 48824, USA
Food Chem 1997 59 (3) 387

Effects of flour chlorination of soft wheat gliadins analyzed by reversed-phase high-performance liquid chromatography, differential scanning calorimetry and fluorescence spectroscopy

Smith D, Proctor SD, Mamo JCL*// *Med Res Fdn Bldg, Level 4, Rear 50 Murray St, Perth, WA 6000, Australia
Ann Clin Biochem 1997 34 (2) 185

A highly sensitive assay for quantitation of apolipoprotein B-48 using an antibody to human apolipoprotein B and enhanced chemiluminescence

Tossavainen O, Syvaöja EL, Tuominen J, Heinanen M, Kalkkinen N// Valio Ltd, Ctr Res & Dev, POB 390, FIN-00101 Helsinki, Finland
Milchwissenschaft 1997 52 (2) 63

Determination of the peptide size range of an extensively hydrolysed protein hydrolysate

Van Bruchem J, Voigt J, Lammers-Wienhoven TSCW, Schonhuse U, Ketelaard JJMH, Tamminga S// Agr Univ Wageningen, Wias Haarweg 10, NL-6709 PJ Wageningen, The Netherlands
Brit J Nutr 1997 77 (2) 273

Secretion and reabsorption of endogenous protein along the small intestine of sheep: Estimates derived from ^{15}N dilution of plasma non-protein-N

4 CARBOHYDRATES

Eberhardt A, Galensa R, Henning W// Univ Bonn, Inst Lebensmittelwissenschaft & Lebensmittelchem, Endenicher Allee 11-13, D-53115 Bonn, Germany
Deut Lebensm-Rundsch 1997 93 (3) 80

Detection of cellulose in sausages using a coupling of enzyme reactors to HPLC (German, English Abstract)

Gibson TS, Solah VA, McCleary BV// NSW Agr, Organ Waste Recycling Unit, Locked Bag 4, Richmond, NSW 2753, Australia
J Cereal Sci 1997 25 (2) 111

A procedure to measure amylose in cereal starches and flours with concanavalin A

Gomez C, Navarro A*, Manzanares P, Horta A, Carbonell JV// *IN-VESECEMA, POB 73, E-46100 Burjassot, Valencia, Spain
Carbohydr Polym 1997 32 (1) 7

Physical and structural properties of barley (1 \rightarrow 3),(1 \rightarrow 4)- β -D-glucan. Part I. Determination of molecular weight and macromolecular radius by light scattering

Kellner R, Lendl B, Wells I*, Worsfold PJ// *Univ Plymouth, Dept Environm Sci, Plymouth PL4 8AA, England
Appl Spectrosc 1997 51 (2) 227

Comparison of univariate and multivariate strategies for the determination of sucrose in fruit juices by automated flow injection analysis with Fourier transform infrared detection

Kim JO, Kim WS, Shin MS*// *Chonnam Natl Univ, Dept Food & Nutr, Kwangju 500757, South Korea
Starch 1997 49 (2) 71

A comparative study on retrogradation of rice starch gels by DSC, X-ray

and α -amylase methods

Nardi S, Del Lungo T*, Bellopede M// *Univ Genoa, Ist Merceol, Via Bertani 1, I-16125 Genoa, Italy
Ital J Food Sci 1997 9 (1) 57

Rice quality assessment: Comparison between a traditional method and the hot water soluble amylose determination to evaluate cooking loss

Stein K, Schwedt G*, Shi R// *Tech Univ Clausthal, Inst Anorgan & Analyt Chem, Paul Ernst Str 4, D-38678 Clausthal Zellerfeld, Germany
Z Lebensm Unters Forsch A-Food Res 1997 204 (2) 99

Spectrophotometric determination of glucose in foods by flow injection analysis with an immobilized glucose oxidase reactor

Zhong HJ, Williams MAK, Keenan RD, Goodall DM*, Rolin C// *Univ York, Dept Chem, York YO1 5DD, England
Carbohydr Polym 1997 32 (1) 27

Separation and quantification of pectins using capillary electrophoresis: A preliminary study

5 LIPIDS

Aguilera JM, Gloria H// Pontificia Univ Catolica Chile, Alameda 340, Santiago, Chile
J Agr Food Chem 1997 45 (3) 781

Determination of oil in fried potato products by differential scanning calorimetry

Al-Kanhal MA// King Saud Univ, Coll Appl Med Sci, POB 10219, Riyadh 11433, Saudi Arabia
Int J Food Sci Nutr 1997 48 (2) 135

Lipid analysis of *Coffea arabica* Linn beans and their possible hypercholesterolemic effects

Arborati M, Benchorba D, Lesieur I, Bizot-Espiard HG, Guardiola-Lemaire B, Chapman MJ, Ninio E*// *Hop Pitie, INSERM, U321, Unite Rech Lipoprot & Atherogenese, Pavillon Benjamin Delessert, 83 Blvd Hop, F-75651 Paris 13, France
Fundam Clin Pharmacol 1997 11 (1) 68

Oxidative degradation of cholesteryl ester in low-density lipoproteins: Analysis by liquid chromatography light scattering and protection by a new synthetic antioxidant, S2047B

Bohner B, Braun M*, Winter H, Fluck B// *Nestle Res & Dev Ctr Konolfingen, CH-3510 Konolfingen, Switzerland
Z Lebensm Unters Forsch A-Food Res 1997 204 (1) 27

Direct esterification method for analysis of long-chain polyunsaturated fatty acids (LC-PUFAs) in infant formulae

Borges SV// UFRRJ, Dept Tecnol Alimentos, BR-23851-970 Itaguaí, RJ, Brazil
Pesquisa Agr Brasil 1997 32 (3) 329

Chemical, functional and sensorial evaluation of the low cholesterol dehydrated egg yolk

Caballero GM, Gros EG*, Centurion OT, Galagovsky LR// *Univ Buenos Aires, Fac Ciencias Exactas & Nat, CONICET, EMAR, LANAIS, Pabelon 2, Ciudad Univ, RA-1428 Buenos Aires, DF, Argentina
J Amer Soc Mass Spectrom 1997 8 (3) 270

Fast-atom bombardment mass spectrometry of brassinosteroid analogs

Cullen P, Fobker M, Tegelkamp K, Meyer K, Kannenberg F, Cignarella A, Benninghoven A, Assmann G// Univ Munster, Inst Arterioskleroseforsch, Domagkstr 3, D-4400 Munster, Germany
J Lipid Res 1997 38 (2) 401

An improved method for quantification of cholesterol and cholesteryl esters in human monocyte-derived macrophages by high performance liquid chromatography with identification of unassigned cholesteryl ester species by means of secondary ion mass spectrometry

Demacker PNM, Hessels M, Toenhake-Dijkstra H, Baadenhuijsen H// Univ Nijmegen Hosp, Dept Med, NL-6500 HB Nijmegen, The Netherlands
Clin Chem 1997 43 (4) 663

Precipitation methods for high-density lipoprotein cholesterol measurement compared, and final evaluation under routine operating conditions of a method with a low sample-to-reagent ratio

Dong J, Ma KM, Van de Voort FR*, Ismail AA// *McGill Univ, Dept Food Sci & Agr Chem, IR Grp, Macdonald Campus, St Anne de Bellevue, Quebec, Canada H9X 3V9
J AOAC Int 1997 80 (2) 345

Stoichiometric determination of hydroperoxides in oils by Fourier transform near-infrared spectroscopy

Fenselau S, Pfeuffer M, Moers A, Roos N, Schrezenmeir J*// *Bundesanstalt Milchforsch, Inst Physiol & Biochem Ernährung, Hermann Weigmann Str 1, D-24103 Kiel, Germany
Ernahr-Umsch 1997 44 (2) 44

- Methods to evaluate the atherogenic potential of fats. II. Methods (German)
- Fernandez J, Perez-Alvarez JA, Fernandez-Lopez JA*// *Univ Murcia, Dept Ingn Quim, E-30203 Cartagena, Murcia, Spain
Food Chem 1997 59 (3) 345
Thiobarbituric acid test for monitoring lipid oxidation in meat
- Guiheneuf TM, Couzens PJ, Wille HJ, Hall LD*// *Univ Cambridge, Herchel Smith Lab Med Chem, Robinson Way, Cambridge CB2 2PZ, England
J Sci Food Agr 1997 73 (3) 265
Visualisation of liquid triacylglycerol migration in chocolate by magnetic resonance imaging
- Heertje I, Leunis M// Unilever Res Labs Vlaardingen, POB 114, NL-3130 AC Vlaardingen, The Netherlands
Food Sci Technol-Lebensm Wiss 1997 30 (2) 141
Measurement of shape and size of fat crystals by electron microscopy
- Marcus MA, Wang J, Thornton JC, Ma RM, Burastero S, Pierson RN*// *Columbia Univ Coll Phys & Surg, St Luke's Roosevelt Hosp Ctr, Body Composit Unit, New York, NY 10025, USA
Obes Res 1997 5 (2) 122
Anthropometrics do not influence dual X-ray absorptiometry (DXA) measurement of fat in normal to obese adults: A comparison with *in vivo* neutron activation analysis (IVNA)
- Neff WE, Jackson MA, List GR, King JW// USDA/ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res, 1815 Nth Univ St, Peoria, IL 61604, USA
J Liq Chromatogr Relat Technol 1997 20 (7) 1079
Qualitative and quantitative determination of methyl esters, free fatty acid, mono-, di-, and triacylglycerols via HPLC coupled with a flame ionization detector
- Neubert R, Raith K, Schiewe J// Univ Halle Wittenberg, Inst Pharmaceut & Biopharmaceut, Langenbeck Str 4, D-06120 Halle, Germany
Pharmazie 1997 52 (3) 212
Capillary zone electrophoresis in skin fatty acid analysis
- Ngeh-Ngwainbi J, Lin J, Chandler A// Kellogg Co, 235 Porter St, Battle Creek, MI 49017, USA
J AOAC Int 1997 80 (2) 359
Determination of total, saturated, unsaturated, and monounsaturated fats in cereal products by acid hydrolysis and capillary gas chromatography: Collaborative study
- Niebach G, Buchele B, Blome J, Grieb S, Brandt G, Kampa P, Raffel HH, Locher M, Borbe HO, Nubert I *et al*// Weismullerstr 45, D-60314 Frankfurt, Germany
Chirality 1997 9 (1) 32
Enantioselective high-performance liquid chromatography assay of (+)R- and (-)S- α -lipoic acid in human plasma
- Nithipatikom K, Falck JR, Bhatt RK, Hanke CJ, Campbell WB// Med Coll Wisconsin, Dept Pharmacol & Toxicol, 8701 Watertown Plank Rd, Milwaukee, WI 53226, USA
Anal Biochem 1997 246 (2) 253
Determination of 14,15-epoxyeicosatrienoic acid and 14,15-dihydroxyeicosatrienoic acid by fluoroimmunoassay
- Paterson E, Amado R*// *ETH Zentrum, Inst Food Sci, CH-8092 Zurich, Switzerland
Food Sci Technol-Lebensm Wiss 1997 30 (2) 202
Simplified method for the simultaneous gas chromatographic determination of fatty acid composition and cholesterol in food
- Rementzis J, Antonopoulou S, Demopoulos CA*// *39 Anafis St, GR-11364 Athens, Greece
J Agr Food Chem 1997 45 (3) 611
Identification and study of gangliosides from *Scomber scombrus* muscle
- Schneider C, Schreier P, Herderich M*// *Univ Wurzburg, Lehrstuhl Lebensmittelchem, Hubland, D-97074 Wurzburg, Germany
Lipids 1997 32 (3) 331
Analysis of lipoygenase-derived fatty acid hydroperoxides by electrospray ionization tandem mass spectrometry
- Steger PJK, Muhlebach SF*// *Kantonsspital Aarau, Dept Pharm, CH-5001 Aarau, Switzerland
Nutrition 1997 13 (2) 133
In vitro oxidation of IV lipid emulsions in different all-in-one admixture bags assessed by an iodometric assay and gas-liquid chromatography
- Stolinski M, Murphy JL, Jones AE, Jackson AA, Wootton SA*// *Univ Southampton, Southampton Gen Hosp, Inst Human Nutr, Southampton SO16 6YD, England
Lipids 1997 32 (3) 337
Stable-isotope method for determining the gastrointestinal handling of [13 C]palmitic acid
- Stott AW, Davies E, Evershed RP*, Tuross N// *Univ Bristol, Organ Geochem Unit, Cantocks Close, Bristol BS8 1TS, England
Naturwissenschaften 1997 84 (2) 82
Monitoring the routing of dietary and biosynthesised lipids through compound-specific stable isotope (δ^{13} C) measurements at natural abundance
- Wesolowski M// Med Univ Gdansk, Dept Analyt Chem, Gen J Hallera 107, PL-80416 Gdansk, Poland
J Therm Anal 1997 48 (3) 485
Application of chemometrically processed chemical and thermoanalytical data for quality control of soybean oils

6 VITAMINS & CO-FACTORS

- Braumann U, Handel H, Strohschein S, Spraul M, Krack G, Ecker R, Albert K*// *Univ Tubingen, Inst Organ Chem, Morgenstelle 18, D-72076 Tubingen, Germany
J Chromatogr A 1997 761 (1-2) 336
Separation and identification of vitamin A acetate isomers by supercritical fluid chromatography- 1 H NMR coupling
- Burri BJ, Neidlinger TR, Lo AO, Kwan C, Wong MR// USDA/ARS, Western Human Nutr Res Ctr, POB 29997, San Francisco, Ca 94129, USA
J Chromatogr A 1997 762 (1-2) 201
Supercritical fluid extraction and reversed-phase liquid chromatography methods for vitamin A and β -carotene heterogeneous distribution of vitamin A in the liver
- Duewer DL, Thomas JB, Kline MC, MacCrehan WA, Schaffer R, Sharpless KE, May WE, Crowell JA// Natl Inst Stand & Technol, Div Analyt Chem, Gaithersburg, Md 20899, USA
Anal Chem 1997 69 (7) 1406
NIST/NCI micronutrients measurement quality assurance program: Measurement repeatabilities and reproducibilities for fat-soluble vitamin-related compounds in human sera
- Gevorgyan AM, Tsagaraev ET, Allambergenov BA, Kalyadin VG// Tashkent State Univ, Tashkent, Uzbekistan
Khim Prir Soedin 1996 (6) 944
Amperometric biosensors for the determination of the presence of ascorbic acid in food and pharmaceutical products (Russian)
- Gong ZL, Zhang ZJ*// *Shaanxi Normal Univ, Dept Chem, Xian 710062, Peoples Rep China
Anal Chim Acta 1997 339 (1-2) 161
An optosensor for riboflavin with C-18 silica gel as a substrate
- Hsieh YZ, Kuo KL// Natl Chiao Tung Univ, Dept Appl Chem, Hsinchu, Taiwan
J Chromatogr A 1997 761 (1-2) 307
Separation of retinoids by micellar electrokinetic capillary chromatography
- Konings EJM, Roomans HHS// Inspect Hlth Protect, Food Inspect Serv, POB 2516, NL-6201 GA Maastricht, The Netherlands
Food Chem 1997 59 (4) 599
Evaluation and validation of an LC method for the analysis of carotenoids in vegetables and fruit
- Kramer JKG, Blais L, Fouchard RC, Melnyk RA, Kallury KMR// Agr Canada, Ctr Food & Anim Res, Ottawa, Ontario, Canada K1A 0C6
Lipids 1997 32 (3) 323
A rapid method for the determination of vitamin E forms in tissues and diet by high-performance liquid chromatography using a normal-phase diol column
- Li J, Hu M, Yu R*// *Hunan Univ, Dept Chem & Chem Engn, Changsha 410082, Peoples Rep China
Sensor Actuator B-Chem 1996 30 (1) 65
Pressed-pellet solid potentiometric sensor for ascorbic acid base on derivatives of cobalt(II) phthalocyanine doped with iodine
- Muller H// Fed Res Ctr Nutr, Inst Nutr Physiol, D-76131 Karlsruhe, Germany
Z Lebensm Unters Forsch A-Food Res 1997 204 (2) 88
Determination of the carotenoid content in selected vegetables and fruit by HPLC and photodiode array detection
- Perez-Ruiz T, Martinez-Lozano C, Tomas V, Sidrach C// Univ Murcia, Dept Analyt Chem, E-30071 Murcia, Spain
Analyst 1997 122 (2) 115
Flow injection fluorimetric determination of ascorbic acid based on its photooxidation by thionine blue
- Piironen V, Koivu T, Tammsalo O, Mattila P// Univ Helsinki, Dept Appl Chem & Microbiol, POB 27, FIN-00014 Helsinki, Finland
Food Chem 1997 59 (3) 473
Determination of phyloquinone in oils, margarines and butter by high-

performance liquid chromatography with electrochemical detection

Schierle J, Bretzel W, Buhler I, Faccin N, Hess D, Steiner K, Schuep W// F Hoffmann La Roche Ltd, Vitamins & Fine Chem, CH-4070 Basle, Switzerland

Food Chem 1997 **59** (3) 459

Content and isomeric ration of lycopene in food and human blood plasma
Schlotterbeck G, Tseng LH, Handel H, Braumann U, Albert K*// *Univ Tübingen, Inst Organ Chem, Morgenstelle 18, D-72076 Tübingen, Germany

Anal Chem 1997 **69** (7) 1421

Direct on-line coupling of capillary HPLC with ¹H NMR spectroscopy for the structural determination of retinyl acetate dimers: 2D NMR spectroscopy in the nanoliter scale

Sierra I, Vidal-Valverde C// CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain

J Liq Chromatogr Relat Technol 1997 **20** (6) 957

A simple method to determine free and glycosylated vitamin B₆ in legumes

Torro IG, Mateo JVG, Calatayud JM// Colegio Univ, Dept Quim, Moncada, Spain

Analyst 1997 **122** (2) 139

Spectrofluorimetric determination of vitamin K₃ by a solid-phase zinc reactor immobilized in a flow injection assembly

Vahteristo L, Lehtikoinen K, Ollilainen C, Varo P// Univ Helsinki, Dept Appl Chem & Microbiol, POB 27, FIN-00014 Helsinki, Finland

Food Chem 1997 **59** (4) 589

Application of an HPLC assay for the determination of folate derivatives in some vegetables, fruits and berries consumed in Finland

Vahteristo LT, Ollilainen V, Varo P// Univ Helsinki, Dept Appl Chem & Microbiol, POB 27, FIN-00014 Helsinki, Finland

J AOAC Int 1997 **80** (2) 373

Liquid chromatographic determination of folate monoglutamates in fish, meat, egg, and dairy products consumed in Finland

7 TRACE ELEMENTS & MINERALS

Ahmed MJ, Stalikas CD, Veltsistas PG, Tzouwara-Karayanni SM, Karayannis MI// Univ Chittagong, Dept Chem, Chittagong 4331, Bangladesh

Analyst 1997 **122** (3) 221

Simultaneous spectrofluorimetric determination of selenium(IV) and (VI) by flow injection analysis

Al-Kathiri MN, Al-Attar AF// King Khalid Milit Acad, Dept Sci, POB 20701, Riyadh 11465, Saudi Arabia

Bull Environ Contam Toxicol 1997 **58** (5) 726

Determination of lead and cadmium in parley tissues grown in the Riyadh area

Barrera PB, Gonzalez RD, Barrera AB// Univ Santiago de Compostela, Fac Chem, Dept Analyt Chem Nutr & Bromatol, E-15706 Santiago de Compostela, Spain

Fresenius J Anal Chem 1997 **357** (4) 457

Direct copper determination in whole milk, non milk fat and whey milk by electrothermal atomic absorption spectrometry

Buckee GK// BRF Int, Surrey RH1 4HY, England

J Inst Brew 1997 **103** (2) 77

Determination of nitrate in beer by ion chromatography (Committee Report)

Edmonds JS, Shibata Y, Francesconi KA, Ripplingale RJ, Morita M// Western Australia Marine Res Labs, POB 20, Nth Beach, WA 6020, Australia

Appl Organometal Chem 1997 **11** (4) 281

Arsenic transformations in short marine food chains studied by HPLC-ICP MS

Gawalko EJ, Nowicki TW, Babb J, Tkachuk R, Wu SL// Canadian Grain Commiss, Grain Res Lab, 1404-303 Main St, Winnipeg, Manitoba, Canada R3C 3G8

J AOAC Int 1997 **80** (2) 379

Comparison of closed-vessel and focused open-vessel microwave dissolution for determination of cadmium, copper, lead, and selenium in wheat, wheat products, corn bran, and rice flour by transverse-heated graphite furnace atomic absorption spectrometry

Giovannoni G, Land JM, Keir G, Thompson EJ, Heales SJR// Inst Neurol, Dept Neuroimmunol, Queen Sq, London WC1N 3BG, England

Ann Clin Biochem 1997 **34** (2) 193

Adaptation of the nitrate reductase and Griess reaction methods for the measurement of serum nitrate plus nitrite levels

Guanghan L, Hong J*, Dandlan S// *Cent China Normal Univ, Dept Chem, Wuhan 430070, Peoples Rep China

Food Chem 1997 **59** (4) 583

Determination of trace nitrite by anodic stripping voltammetry

Hendrix P, Van Cauwenberg R, Robbrecht H*, Deelstra H// *Univ Antwerp, Dept Pharmaceut Sci, Universiteitsplein, B-2610 Antwerp, Belgium

Z Lebensm Unters Forsch A-Food Res 1997 **204** (3) 165

Daily dietary rubidium intake in Belgium using duplicate portion sampling

Luque de Castro MDL, Da Silva MP// Univ Cordoba, Dept Analyt Chem, E-14004 Cordoba, Spain

Trend Anal Chem 1997 **16** (1) 16

Strategies for solid sample treatment

Rajan MT, Rao KSJ*, Mamatha BM, Rao RV, Shanmugavelu P, Menon RB, Pavithran MV// *Univ Virginia, Dept Pathol, Box 168, Charlottesville, Va 22908, USA

J Neurol Sci 1997 **146** (2) 153

Quantification of trace elements in normal human brain by inductively coupled plasma atomic emission spectrometry

Razagui IBA, Haswell SJ// Univ Hull, Hull Matern Hosp, Dept Obstet & Gynaecol, Hedon Rd, Hull HU9 5LX, England

J Anal Toxicol 1997 **21** (2) 149

The determination of mercury and selenium in maternal and neonatal scalp hair by inductively coupled plasma-mass spectrometry

Rook JS, Braselton WE, Nachreiner RF, Lloyd JW, Shea ME, Shelle JE, Hitzler PR// Michigan State Univ, Dept Large Anim Clin Sci, East Lansing, Mi 48824, USA

Amer J Vet Res 1997 **58** (4) 376

Multi-element assay of mammary secretions and sera from periparturient mares by inductively coupled argon plasma emission spectroscopy

Taylor RP, James TJ// John Radcliffe Hosp, Dept Clin Biochem, Oxford OX3 9DU, England

Ann Clin Biochem 1997 **34** (2) 211

Enzymatic measurement of sweat sodium and chloride (Letter)

Thiel G, Danzer K*// *Univ Jena, Inst Anorgan & Analyt Chem, Lessingstr 8, D-07743 Jena, Germany

Fresenius J Anal Chem 1997 **357** (5) 553

Direct analysis of mineral components in wine by inductively coupled plasma optical emission spectrometry (ICP-OES)

Town RM*// *Queen's Univ Belfast, Sch Chem, Belfast BT9 5AG, Northern Ireland

Electroanal 1997 **9** (5) 407

Potentiometric stripping analysis and anodic stripping voltammetry for measurement of copper(II) and lead(II) complexation by fulvic acid: A comparative study

Wrobel K, Wrobel K, Lopez de Alba PL, Lopez-Martinez L// Univ Guanajuato, Inst Invest Cientif, Retana 5, Guanajuato 36000, Mexico

Anal Lett 1997 **30** (4) 717

The application of partial least squares method (PLS) for simultaneous spectrophotometric determination of calcium and magnesium in human serum

Yaman M// Firat Univ, Dept Chem, TR-23119 Elazig, Turkey

Chem Anal 1997 **42** (1) 79

Determination of manganese in vegetables by atomic absorption spectrometry with enrichment using activated carbon

Yee HY, Holtrop TG// Univ Detroit, Med Ctr Labs, 4201 St Antoine, Detroit, Mi 48201, USA

J Anal Toxicol 1997 **21** (2) 142

An improved capillary blood-filter paper-graphite furnace atomic absorption spectrometric method for lead screening

8 DRUG, BIOCIDES & PROCESSING RESIDUES

Appaiah KM, Sreenivasa MA// Cent Food Technol, Food Safety & Analyt Qual Control Lab, Mysore 570013, India

J Food Sci Technol-Mysore 1997 **34** (1) 61

Detection of polychlorinated biphenyls in fats

Cabras P, Angioni A, Melis M, Minelli EV, Pirisi FM// Univ Cagliari, Dipt Tossicol, Viale Diaz 182, I-09126 Cagliari, Italy

J Chromatogr A 1997 **761** (1-2) 327

Simplified multiresidue method for the determination of organophosphorus insecticides in olive oil

Combs MT, Ashraf-Khorassani M, Taylor LT*// *Virginia Polytech Inst & State Univ, Dept Chem, Blacksburg, Va 24061, USA

J Chromatogr Sci 1997 **35** (4) 176

Method development for the separation of sulfonamides by supercritical fluid chromatography

Crooks SRH, Traynor IM, Elliott CT, McCaughey WJ// Vet Sci Div,

- Residue Lab, Stoney Rd, Belfast BT4 3SD, Northern Ireland
Analyst 1997 **122** (2) 161
 Detection of monensin residues in poultry liver using an enzyme immunoassay
- Csiba A, Juhasz S, Lombai G, Szentgyorgyi M// Fovaros Alategeszegugyi & Elelmiszereo, Lehel u 43-47, H-1135 Budapest, Hungary
Magy Kem Foly 1997 **103** (1) 45
 Determination of formaldehyde from food materials by HPLC (Hungarian)
- Demertzis PG, Franz R*// *Fraunhofer Inst Lebensmitteltechnol & Verpackung, Giggenhauser Str 35, D-85354 Freising, Germany
Z Lebensm Unters Forsch A-Food Res 1997 **204** (3) 227
 Determination of low levels of aziridine in official EU food simulants by capillary gas chromatography
- Ebete KO, Koundourellis JE// Aristotelian Univ, Lab Pharmaceut Anal, GR-54006 Thessaloniki, Greece
J Liq Chromatogr Relat Technol 1997 **20** (5) 789
 Rapid and sensitive procedure for the quantitation of pimethixene in human milk and plasma by solid phase extraction (SPE) using HPLC
- Eiden R, Falter R, Augustin-Castro B, Scholer HF*// *Univ Heidelberg, Inst Environm Geochem, D-69120 Heidelberg, Germany
Fresenius J Anal Chem 1997 **357** (4) 439
 Distillation, on-line RP C18 preconcentration and HPLC-UV-PCO-CVA-AS as a new combination for the determination of methylmercury in sediments and fish tissue
- Ellerbroek L, Schwarz C, Hildebrandt G, Welse E, Bernoth EM, Pluta HJ, Arndt G// Bundesinst Gesundheitlichen Verbraucherschutz, Thielallee 88-92, D-14196 Berlin, Germany
Arch Lebensmittelhyg 1997 **48** (1) 3
 Microbiological investigation on the detection of anti-microbial residues in fish. (German, Each Abstract)
- Fiddler W, Pensabene JW, Gates RA, Custer C, Yoffe A, Phillipio T// USDA/ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Wyndmoor, Pa 19038, USA
J AOAC Int 1997 **80** (2) 353
 N-Nitrosodibenzylamine in boneless hams processed in elastic rubber nettings
- Fodey TL, Crooks SRH, Elliott CT, McCaughey WJ// Vet Sci Div, Residue Sect, Stoney Rd, Belfast BT4 3SD, Northern Ireland
Analyst 1997 **122** (2) 165
 Comparison of porcine urine and bile as matrices to screen for the residues of two sulfonamides using a semi-automated enzyme immunoassay
- Forsyth DS, Dusseault L// Hlth Canada, Food Res Div, Bureau Chem Safety, Ottawa, Ontario, Canada K1A 0L2
Food Addit Contam 1997 **14** (3) 301
 Determination of methylcyclopentadienyl manganese tricarbonyl in beverages by solid-phase microextraction
- Fujita K, Ito K, Araki E, Tanno K, Murayama M, Saito Y// Japan Food Res Labs, Naka ku, 4-5-13 Osu, Nagoya, Aichi 460, Japan
J Food Hyg Soc Jpn 1997 **38** (1) 12
 Analytical method for residual oxytetracycline in livestock and marine products (Japanese, English Abstract)
- Godfey MAJ, Luckey MF, Kwasowski P// Univ Surrey, Sch Biol Sci, Guildford GU2 5XH, Surrey, England
Food Addit Contam 1997 **14** (3) 281
 IAC/ELISA detection of monensin elimination from chicken tissues, following oral therapeutic dosing
- Hartmann M, Ammon J, Berg H// Chem Landesuntersuchungsanstalt, Hoffstr 3, D-76133 Karlsruhe, Germany
Z Lebensm Unters Forsch A-Food Res 1997 **204** (3) 231
 Determination of radiation-induced hydrocarbons in processed food and complex lipid matrices: A new solid phase extraction (SPE) method for detection of irradiated components in food
- Hirahara Y, Tsumura Y, Nakamura Y, Tonogai Y, Shibata T// Kobe Quarantine Stn, Ctr Inspect Imported Foods & Infect Dis, Hyogo ku, 1-1 Toyahama cho, Kobe 652, Japan
J Food Protect 1997 **60** (3) 305
 Analysis of phenothrin and its metabolite 3-phenoxybenzoic acid (PBA) in agricultural products by GC and ion-trap GC/MS
- Jimenez JJ, Bernal JL, Del Nozal MJ, Toribio L, Atienza J// Univ Valladolid, Dept Analyt Chem, Prado Magdalena, E-47005 Valladolid, Spain
J High Res Chromatogr 1997 **20** (2) 81
 Characterization and monitoring of amitraz degradation products in honey
- Kesari R, Rai M, Gupta VK*// *Ravishankar Univ, Sch Studies Chem, Raipur 492010, Madhya Pradesh, India
J AOAC Int 1997 **80** (2) 388
 Spectrophotometric method for determination of paraquat in food and biological samples
- Krokos F, Creaser CS, Wright C, Startin JR*// *MAFF, CSL Food Sci Lab, Colney Lane, Norwich NR4 7UQ, England
Fresenius J Anal Chem 1997 **357** (6) 732
 Congener-specific method for the determination of ortho and non-ortho polychlorinated biphenyls, polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in foods by carbon-column fractionation and gas chromatography/isotope dilution mass spectrometry
- Marconi E, Panfili G, Acquistucci R// Univ Molise, DISTAAM, Via Tiberio 21, I-86100 Campobasso, Italy
Ital J Food Sci 1997 **9** (1) 47
 Microwave hydrolysis for the rapid analysis of furosine in foods
- Morales FJ, Romero C, Jimenez-Perez S// Unidad Prod Lacteos, Inst Frio, CSIC, Ciudad Univ s/n, E-28040 Madrid, Spain
J Food Sci Technol-Mysore 1997 **34** (1) 28
 A kinetic study of 5-hydroxymethylfurfural formation in Spanish UHT milk stored at different temperatures
- Moret S, Grob K*, Conte LS// *Kantonales Lab, Official Food Control Authority, CH-8030 Zurich, Switzerland
Z Lebensm Unters Forsch A-Food Res 1997 **204** (3) 241
 Mineral oil polyaromatic hydrocarbons in foods, eg from jute bags, by on-line LC-solvent evaporation (SE)-LC-GC-FID
- Nicoletti I, Cogliandro E, Corradini C, Corradini D// CNR, Ist Cromatog, Area Ricerca Roma, POB 10, I-00016 Monterotondo, Italy
J Liq Chromatogr Relat Technol 1997 **20** (5) 719
 Analysis of epsilon-N-2-furoylmethyl-L-lysine (furosine®) in concentrated milk by reversed phase chromatography with a microbore column
- Obana H, Kikuchi K, Okihashi M, Hori S// Osaka Prefectural Inst Publ Hlth, Higashinari ku, 1-3-69 Nakamichi, Osaka 537, Japan
Analyst 1997 **122** (3) 217
 Determination of organophosphorus pesticides in foods using an accelerated solvent extraction system
- Okihashi M, Obana H, Hori S// Osaka Prefectural Inst Publ Hlth, Higashinari ku, 1-3-69 Nakamichi, Osaka 537, Japan
J Food Hyg Soc Jpn 1997 **38** (1) 16
 Studies of the mobile phase in gel permeation chromatography for analysis of pesticide residues (Japanese, English Abstract)
- Skorzynski SS// Amer Cyanamid Co, Agr Prod Res Div, POB 400, Princeton, NJ 08453, USA
J AOAC Int 1997 **80** (2) 418
 Determination of dislodgeable residues of N-4-chlorobenzoyl-N'-benzoyl-N'-tert-butylhydrazine (RH-0345) from grass by liquid chromatography
- Soto-Valdez H, Gramshaw JW, Vandenburg HJ// Ctr Invest Alimentac & Desarrollo, AP 1735, Hermosillo 83000, Sonora, Mexico
Food Addit Contam 1997 **14** (3) 309
 Determination of potential migrants present in nylon 'microwave and roasting bags' and migration into olive oil
- Suzuki J, Okumoto C, Katsuki Y, Tomomatsu T, Tamura Y, Ito Y, Ishiwata H, Yamada T, Nishijima M// Tokyo Metropolitan Res Lab Publ Hlth, Shinjuku ku, 3-24-1 Hyakunincho, Tokyo 169, Japan
J Food Hyg Soc Jpn 1997 **38** (1) 22
 Determination of residual chlorite in vegetables and eggs treated with sodium chlorite by UV-ion chromatography and effect of soaking in water (Japanese, English Abstract)
- Uygun U// Hacettepe Univ, Dept Food Engn, TR-06532 Beytepe, Ankara, Turkey
J Liq Chromatogr Relat Technol 1997 **20** (5) 771
 Determination of organophosphorus pesticide residues in carrot using gel permeation chromatography
- Vandenburg HJ, Gramshaw JW*// *Univ Leeds, Procter Dept Food Sci, Leeds LS2 9IT, England
Deut Lebensm-Rundsch 1997 **93** (2) 52
 A rapid method for the determination of diffusion coefficients of migrants and prediction of migration from thermoset polyester using a dynamic headspace technique
- Viviani-Nauer A, Hoffmann-Boller P, Gafner J// Swiss Fed Res Stn, CH-8820 Wädenswil, Switzerland
Amer J Enol Viticult 1997 **48** (1) 67
 In vivo detection of folpet and its metabolite phthalimide in grape must and wine
- Yu L, Schoen R, Dunkin A, Firman M, Cushman H// Washington State Dept Agr, Pesticide Residue Lab, 2017 Sth 1st St, Yakima, Wa 98903, USA
J Agr Food Chem 1997 **45** (3) 748
 Rapid identification and quantitation of diphenylamine, o-phenylphenol, and propargite pesticide residues on apples by gas chromatography/mass spectrometry

9 TOXINS

- Betz JM, Gay ML, Mossoba MM, Adams S, Portz BS// US/FDA, Ctr Food Safety & Appl Nutr, 200 C St SW, Washington, DC 20204, USA
J AOAC Int 1997 **80** (2) 303
Chiral gas chromatographic determination of ephedrine-type alkaloids in dietary supplements containing Ma Huang
- Bouaicha N, Hennion MC, Sandra P// Ecole Super Phys & Chim Ind Ville Paris, CEMATMA, Chim Analyt Lab, 10 rue Vauquelin, F-75231 Paris, France
Toxicon 1997 **35** (2) 273
Determination of okadaic acid by micellar electrokinetic chromatography with ultraviolet detection
- Busto O, Miracle M, Guasch J, Borrull F// Univ Rovira y Virgili, Unitat Enol, E-43005 Tarragona, Spain
J Liq Chromatogr Relat Technol 1997 **20** (5) 743
Solid phase extraction of biogenic amines from wine before chromatographic analysis of their AQC derivatives
- Croci L, Cozzi L, Stacchini A, De Medici D, Toti L// Ist Super Sanita, Repart Igien Tecn Aliment Lab Aliment, Viale Regina Elena 299, I-00161 Rome, Italy
Toxicon 1997 **35** (2) 223
A rapid tissue culture assay for the detection of okadaic acid and related compounds in mussels
- Entwisle AC, Jorgensen K, Williams AC, Boenke A, Farnell PJ// Leatherhead Food Res Assn, Randalls Rd, Leatherhead KT22 7RY, England
Food Addit Contam 1997 **14** (3) 223
An intercomparison of methods for the determination of ochratoxin A in pig kidney
- Holak W, Di Prossimo V, Malek EG// US/FDA, New York Reg Lab, 850 3rd Ave, Brooklyn, NY 11232, USA
J Liq Chromatogr Relat Technol 1997 **20** (7) 1057
Reductive voltammetric HPLC detection of aflatoxins: Determination of aflatoxin B₁ in foods
- Kierek-Jaszczuk D, Marquardt RR*, Abramson D// *Univ Manitoba, Fac Agr & Food Sci, Winnipeg, Manitoba, Canada R3T 2N2
J Food Protect 1997 **60** (3) 321
Use of a heterologous solid-phase antigen in an indirect competitive antibody-capture enzyme-linked immunosorbent assay for T₂ mycotoxin
- Lewis RJ, Jones A// Univ Queensland, Agr Biotechnol Ctr, Brisbane, Qld 4072, Australia
Toxicon 1997 **35** (2) 159
Characterization of ciguatoxins and ciguatoxin congeners present in ciguateric fish by gradient reverse-phase high-performance liquid chromatography/mass spectrometry
- Maragos CM// USDA/ARS, Natl Ctr Agr Utilizat Res, Mycotoxin Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA
J Clin Ligand Assay 1997 **20** (1) 136
Measurement of mycotoxins in food with a fiber-optic immunosensor
- Martinez-Dominguez B, Rincon-Leon F// Univ Cordoba, Dept Bromatol, E-14014 Cordoba, Spain
J AOAC Int 1997 **80** (2) 441
Optimizing the determination of trypsin inhibitor activity in chickpeas by response surface methodology
- Masic Z, Bocarov-Stancic A, Pavkov S, Zurovac-Kuzman O// Sci Inst Vet Med, Novi Sad, Yugoslavia
Acta Vet-Beograd 1997 **47** (1) 23
Gas-chromatographic determination of type A trichothecene mycotoxins in extracts of *Fusarium* spp. isolated from Yugoslav corn hybrids
- Nawaz S, Scudamore KA*, Rainbird SC// *MAFF Cent Sci Lab, London Rd, Slough SL3 7HJ, Berks, England
Food Addit Contam 1997 **14** (3) 249
Mycotoxins in ingredients of animal feeding stuffs. I. Determination of *Alternaria* mycotoxins in oilseed rape meal and sunflower seed meal
- Patel S, Hazel CM, Winterton AGM, Gleadle AE// RHM Technol Ltd, Lord Rank Ctr, Lincoln Rd, High Wycombe HP12 3QR, England
Food Addit Contam 1997 **14** (3) 217
Survey of ochratoxin A in UK retail coffees
- Paulsen P, Bauer F, Vali S// Vet Med Univ Wien, Inst Fleischhyg, J Baumgasse 1, A-1210 Vienna, Austria
Fleischwirtschaft 1997 **77** (3) 271
Biogenic amines in fermented sausage. I. Analytical aspects on the determination of biogenic amines (German, English Abstract)
- Rodriguez A, Dezfulian M**// *Coll Hlth, Dept Med Lab Sci, Univ Pk, Miami, FL 33199, USA
Folia Microbiol Prague 1997 **42** (2) 149
Rapid identification of *Clostridium botulinum* and botulin toxin in food
- Strachan NJC, John PG, Millar IG// Robert Gordon Univ, Food Sci & Technol Res Ctr, St Andrew St, Aberdeen AB25 1HG, Scotland
Int J Food Microbiol 1997 **35** (3) 293
Application of a rapid automated immunosensor for the detection of *Staphylococcus aureus* enterotoxin B in cream
- Taylor WG, Zaman MS, Mir Z, Mir PS, Acharya SN, Mears GJ, Elder JL// Agr & Agri-Food Canada, Res Ctr, 107 Sci Pt, Saskatoon, Saskatchewan, Canada S7N 0X2
J Agr Food Chem 1997 **45** (3) 753
Analysis of steroidal sapogenins from amber fenugreek (*Trigonella foenum-graecum*) by capillary gas chromatography and combined gas chromatography/mass spectrometry
- Vazquez BI, Fente C, Franco CM, Quinto E, Cepeda A, Prognon P**// *Univ Paris 11, Fac Pharm, Lab Chim Analyt 2, 5 rue JB Clement, F-92290 Chatenay Malabry, France
Biomed Chromatogr 1997 **11** (2) 97
Semi-quantitative method with fluorescence detection of citrinin in fungal cultures isolated from cheese and cheese factories
- Von der Stegen G, Jorissen U, Pittet A, Saccon M, Steiner W, Vincenzi M, Winkler M, Zapp J, Schlatter C// Douwe Egberts, POB 2, NL-3500 CA Utrecht, The Netherlands
Food Addit Contam 1997 **14** (3) 211
Screening of European coffee final products for occurrence of ochratoxin A (OTA)
- Wood GM, Patel S, Entwisle AC, Williams AC, Boenke A, Farnell PJ// Leatherhead Food Res Assn, Randalls Rd, Leatherhead KT22 7RY, Surrey, England
Food Addit Contam 1997 **14** (3) 237
Ochratoxin A in wheat: Certification of two reference materials
- Zeringue HJ// USDA/ARS, Sthn Reg Res Ctr, POB 19687, New Orleans, LA 70179, USA
J AOAC Int 1997 **80** (2) 341
Volatile antifungal compounds in maize kernels: Effect of ear position on aflatoxin production
- Zhao JY, Thibault P, Quilliam MA**// *Natl Res Council Canada, Atlantic Reg Lab, Inst Marine Biosci, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1
Electrophoresis 1997 **18** (2) 268
Analysis of domoic acid and isomers in seafood by capillary electrophoresis

10 ADDITIVES

- Agui L, Yanez-Sedeno P, Pingarron JM**// *Univ Complutense Madrid, Dept Anal Chem, E-28040 Madrid, Spain
Electroanal 1997 **9** (6) 468
Analytical applications of poly(3-methylthiophene)-coated cylindrical carbon filter microelectrodes
- Chemomorsky S, Rancourt R, Sahai D, Poretz R// Rutgers State Univ, Dept Biochem & Microbiol, New Brunswick, NJ 08903, USA
J AOAC Int 1997 **80** (2) 433
Evaluation of commercial chlorophyllin copper complex preparations by liquid chromatography with photodiode array detection
- Hamano T, Mitsuhashi Y, Aoki N, Semma M, Ito Y// Publ Hlth Res Inst, Div Food Chem, Chuo ku, Minatojima, Nakamachi 4-6, Kobe 650, Japan
Analyst 1997 **122** (3) 259
Enzymic method for the spectrophotometric determination of benzoic acid in soy sauce and pickles
- Hofer K, Jenewein D// Bundesanstalt Lebensmitteluntersuchung, Technik Str 70, A-6020 Innsbruck, Austria
Z Lebensm Unters Forsch A-Food Res 1997 **204** (1) 32
Quick spectrophotometric identification of synthetic food colorants by linear regression analysis
- Hormazabal V, Yndestad M// Norwegian Coll Vet Med, Div Food Hyg, POB 8146, N-0033 Oslo 1, Norway
J Liq Chromatogr Relat Technol 1997 **20** (7) 1115
Determination of diflubenzuron and teflubenzuron in fish feed by high performance liquid chromatography
- Shimizu T, Muroi T, Ichi T, Nakamura M, Yoshihira K// San Ei Gen FFI Inc, Toyonaka, Osaka 561, Japan
J Food Hyg Soc Jpn 1997 **38** (1) 34
Analysis of red cabbage colors in commercial foods using high-performance liquid chromatography with photodiode array detection mass spectrometry (Japanese, English Abstract)
- Webster GK, Luigs ES, Hearne LA, Pomeroy M, Panozzo LA, Bell J, Mustapha MA// Alpharma Inc, Div Anim Hlth, 400 State St, Chicago Hts, IL 60411, USA

J AOAC Int 1997 **80** (2) 298

Investigation of assay interference with microbiological determinations of chlortetracycline in feed grade and premix samples

11 FLAVOURS & AROMAS

Fayet B, Derbesy M, Guerere M// Direct Gen Concurrence Consommat & Repress Fraude, Lab Interreg 146 Traverse Charles Susini, F-13388 Marseille 13, France

Analisis 1996 **24** (9-10) 398

Analytic validation of isotopic analysis of vanilla products (French, English Abstract)

Gomez-Cordoves C, Bartolome B, Jimeno ML// CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain

J Agr Food Chem 1997 **45** (3) 873

Identification of 2,3-dihydroxy-1-guaiacylpropan-1-one in brandies

Guerrero L, Gou P, Arnau J// IRTA, Unitat Tecnol Proc, Ctr Tecnol Carn, Granja Camps Armet, E-17121 Monells, Girona, Spain

J Sens Stud 1997 **12** (1) 39

Descriptive analysis of toasted almonds: A comparison between expert and semi-trained assessors

Izquierdo-Ferrero JM, Fernandez-Romero JM, Luque de Castro MD// Univ Cordoba, Dept Analit Chem, E-14004 Cordoba, Spain

Analyst 1997 **122** (2) 119

On-line flow injection-pervaporation of beer samples for the determination of diacetyl

Kerscher R, Grosch W// *Deutsch Forsch Anstalt Lebensmittelchem, Lichtenbergstr 4, D-85748 Garching, Germany

Z Lebensm Unters Forsch A-Food Res 1997 **204** (1) 3

Comparative evaluation of potent odorants of boiled beef by aroma extract dilution and concentration analysis

Korany K, Amtmann M// Univ Hort & Food Ind, Dept Food Chem & Nutr Sci, Somloi u 14-16, H-1118 Budapest, Hungary

Rapid Commun Mass Spectrom 1997 **11** (6) 686

Gas chromatography/mass spectrometry measurements in the investigation of pepper aroma structures

Ky CL, Noirot M, Hamon S// ORSTOM, Lab Ressources Genet & Ameliorat Plantes Trop, F-34032 Montpellier 1, France

J Agr Food Chem 1997 **45** (3) 786

Comparison of five purification methods for chlorogenic acids in green coffee beans (*Coffea* sp)

Misharina TA, Golovnya RV// Inst Biochem Phys, ul Vavilova 28, Moscow 117813, Russia

J Anal Chem-Engl Tr 1997 **52** (3) 227

Identification of volatile components of a flavoring with the smell of chicken by gas chromatography, gas chromatography with IR detection, and gas chromatography/mass spectrometry

Nanto H, Kondo K, Habara M, Douguchi Y, Waite RJ, Nakazumi H// Kanazawa Inst Technol, Electron Device Syst Res Lab, 7-1 Oogigaoka, Nonoichi machi, Ishikawa gun, Ishikawa 921, Japan

Sensor Actuator B-Chem 1996 **35/36** (1-3) 183

Identification of aromas from alcohols using a Japanese-lacquer-film-coated quartz resonator gas sensor in conjunction with pattern recognition analysis

Ott A, Fay LB, Chaintreau A// *Nestec Ltd, Vers Chez les Blanc, POB 44, CH-1000 Lausanne 26, Switzerland

J Agr Food Chem 1997 **45** (3) 850

Determination and origin of the aroma impact compounds of yogurt flavor

Remaud GS, Martin YL, Martin GG, Martin GJ// Eurofins Labs, Rue Bo-bierre, Site Geraudiere, CP 40, F-44073 Nantes 03, France

J Agr Food Chem 1997 **45** (3) 859

Detection of sophisticated adulterations of natural vanilla flavors and extracts: Application of the SNIF-NMR method to vanillin and *p*-hydroxybenzaldehyde

Sable S, Letellier F, Cottenceau G// Univ La Rochelle, Lab Genie Prot & Cellulaire, Ave Marillac, F-17042 La Rochelle 01, France

Biotechnol Lett 1997 **19** (2) 143

An analysis of the volatile flavour compounds in a soft raw goat milk cheese

Schnermann P, Schieberle P// *Tech Univ Munich, Inst Food Chem, Lichtenbergstr 4, D-85748 Garching, Germany

J Agr Food Chem 1997 **45** (3) 867

Evaluation of key odorants in milk chocolate and cocoa mass by aroma extract dilution analyses

Singh S, Hines EL, Gardner JW// Univ Plymouth, Sch Comput, Plymouth PLY 8AA, England

Sensor Actuator B-Chem 1996 **30** (3) 185

Fuzzy neural computing of coffee and tainted-water data from an electronic nose

Spanier AM, Flores M, McMillin KW, Bidner TD// USDA/ARS, Sthn Reg Res Ctr, Food Process & Sensory Qual Res, 1100 Robert E Lee Blvd, New Orleans, La 70124, USA

Food Chem 1997 **59** (4) 531

The effect of post-mortem aging on meat flavor quality in Brangus beef. Correlation of treatments, sensory, instrumental and chemical descriptors

13 ANIMAL PRODUCTS

Danicke S, Halle I, Jeroch H// Univ Halle Wittenberg, Inst Anim Nutr, Emil Aberhalden Str 25B, D-06108 Halle, Germany

Arch Anim Nutr 1997 **50** (2) 137

Evaluation of the non invasive TOBEC (total body electrical conductivity) procedure for prediction of chemical components of male broilers with special consideration of dietary protein level

Downey G, Beauchene D// Teagasc, Natl Food Ctr, Dunsinea, Castleknock, Dublin 15, Rep Ireland

Meat Sci 1997 **45** (3) 353

Discrimination between fresh and frozen-then-thawed beef m-longissimus dorsi by combined visible-near infrared reflectance spectroscopy: A feasibility study

Guskova VP, Sizova LS// Kemerovo Technol Inst Food Ind, Blvd Stroitelei 47, Kemerovo 650060, Russia

J Anal Chem-Engl Tr 1997 **52** (3) 269

Potentiometric determination of the salt composition of milk and dairy products

Henle T, Schwarzenbolz U, Klostermeyer H// Tech Univ Munich, Lehrstuhl Milchwissensch, Vottinger Str 45, D-85350 Freising, Germany

Z Lebensm Unters Forsch A-Food Res 1997 **204** (2) 95

Detection and quantitation of pentosidine in foods

Hiatt MH// US/EPA, Natl Exposure Res Lab, Characterizat Res Div, POB 93478, Las Vegas, Nv 89193, USA

Anal Chem 1997 **69** (6) 1127

Analyses of fish tissue by vacuum distillation/gas chromatography/mass spectrometry

Horimoto Y, Lee K, Nakai S// Univ British Columbia, Dept Food Sci, 6650 NW Marine Dr, Vancouver, Brit Columbia, Canada V6T 1Z4

J Agr Food Chem 1997 **45** (3) 733

Classification of microbial defects in milk using a dynamic headspace gas chromatograph and computer-aided data processing. I. Principal component similarity analysis

Horimoto Y, Lee K, Nakai S// Address as above.

J Agr Food Chem 1997 **45** (3) 743

Classification of microbial defects in milk using a dynamic headspace gas chromatograph and computer-aided data processing. II. Artificial neural networks, partial least-squares regression analysis, and principal component regression analysis

Thyholt K, Isaksson T// Norwegian Food Res Inst, Matforsk, Osloveien 1, N-1430 As, Norway

J Sci Food Agr 1997 **73** (4) 525

Differentiation of frozen and unfrozen beef using near-infrared spectroscopy

Veciana-Nogues MT, Izquierdo-Pulido M, Vidal-Carou MC// Univ Barcelona, Unidad Nutr & Bromatol, Avda Joan XXIII s/n, E-08028 Barcelona, Spain

Food Chem 1997 **59** (3) 467

Determination of ATP related compounds in fresh and canned tuna fish by HPLC

Velleman SG, Patterson RA, Nestor KE// Ohio State Univ, Dept Anim Sci, Wooster, Oh 44691, USA

Poultry Sci 1997 **76** (3) 506

Identification of decorin and chondroitin sulfate proteoglycans in turkey skeletal muscle

Woollard DC, Indyk HE, Woollard GA// Lynfield Food Serv Ctr, POB 41, Auckland, New Zealand

Food Chem 1997 **59** (3) 325

Enzymatic determination of carnitine in milk and infant formula

14 PLANT & MICROBIAL PRODUCTS

Food Aust 1997 **49** (3) 104

Test for peanut in foods (News)

Amari M, Abe A// Natl Inst Anim Ind, Dept Anim Nutr, Tsukuba, Ibaraki

- 305, Japan
Jpn Agr Res Quart 1997 **31** (1) 55
 Application of near infrared reflectance spectroscopy to forage analysis and prediction of TDN contents
- Bakker J, Bridle P, Honda T, Kuwano H, Saito N, Terahara N, Timberlake CF// AFRC Inst Food Res, Reading Lab, Earley Gate, Whiteknights Rd, Reading RG6 6BZ, England
Phytochemistry 1997 **44** (7) 1375
 Identification of an anthocyanin occurring in some red wines
- Bietz JA, Lookhart GL// USDA/ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, IL 61604, USA
Food Sci Technol-Lebensm Wiss 1997 **30** (2) 210
 Wheat varietal identification by capillary electrophoresis: An inter-laboratory comparison of methods
- Chen PL, Long Z, Ruan R*, Labuza TP// *Univ Minnesota, Dept Agr & Biosyst Engr, St Paul, Mn 55108, USA
Food Sci Technol-Lebensm Wiss 1997 **30** (2) 178
 Nuclear magnetic resonance studies of water mobility in bread during storage
- Crozier A, Lean MEJ, McDonald MS, Black C// Univ Glasgow, Plant Mol Sci Grp, Bower Bldg, Glasgow G12 8QQ, Scotland
J Agr Food Chem 1997 **45** (3) 590
 Quantitative analysis of the flavonoid content of commercial tomatoes, onions, lettuce, and celery
- Daghbouche Y, Garrigues S, Vidal MT, De la Guardia M**// *Univ Valencia, Dept Analyt Chem, 50 Dr Moliner St, E-46100 Burjassot, Spain
Anal Chem 1997 **69** (6) 1086
 Flow injection Fourier transform infrared determination of caffeine in soft drinks
- De Nino A, Lombardo N, Perri E, Procopio A, Raffaelli A, Sindona G**// *Univ della Calabria, Dipt Chim, I-87030 Arcavacata di Rende, CS, Italy
J Mass Spectrometry 1997 **32** (5) 533
 Direct identification of phenolic glucosides from olive leaf extracts by atmospheric pressure ionization tandem mass spectrometry
- Donker HCW, Braaksma A**// *DLO, Agrotechnol Res Inst, POB 17, NL-6700 AA Wageningen, The Netherlands
Postharvest Biol Technol 1997 **10** (2) 127
 Changes in metabolite concentrations detected by ¹³C NMR in the senescing mushroom (*Agaricus bisporus*)
- Donker HCW, Van As H*, Snijder HJ, Edzes HT// *Wageningen Univ Agr, Dept Mol Phys, Dreijenlaan 3, NL-6703 HA Wageningen, The Netherlands
Magn Reson Imaging 1997 **15** (1) 113
 Quantitative ¹H-NMR imaging of water in white button mushrooms (*Agaricus bisporus*)
- Ehlers D, Platte S, Bork WR, Gerard D, Quirin KW// Tech Fachhsch Berlin, Fachbereich Lebensmitteltechnol & Verpackungstech, D-10785 Berlin, Germany
Deut Lebensm-Rundsch 1997 **93** (3) 77
 HPLC analysis of sweat clover extracts (German, English Abstract)
- Golding JB, Sarafis V, Crozier S, Rose SE// Univ Western Sydney, Sch Hort, Richmond, NSW 2753, Australia
Hortscience 1997 **32** (1) 112
 Nuclear magnetic resonance imaging of superficial scald in 'Granny Smith' apples
- Guevara P, Perez-Amador MC, Diaz CE, Mihm JA// Univ Nacl Autonoma Mexico, Dept Biol, Ciudad Univ, Mexico City 04510, DF, Mexico
Phyton-Int J Exp Bot Arg 1996 **59** (1-2) 47
 Flavonoid chromatographic profiles and phenolic acid determination in four maize lines
- Guthrie J, Walsh K// Dept Primary Ind, Rockhampton, Qld 4702, Australia
Aust J Exp Agr 1997 **37** (2) 253
 Non-invasive assessment of pineapple and mango fruit quality using near infra-red spectroscopy
- Herraiz T// CSIC, Inst Ferment Ind, Juan de la Cierva 3, E-28006 Madrid, Spain
Rapid Commun Mass Spectrom 1997 **11** (7) 762
 Analysis of tetrahydro- β -carboline and their precursors by electron ionization mass spectrometry. Identification in foodstuffs by gas chromatography/mass spectrometry
- Jonsson A, Winquist F, Schnurer J*, Sundgren H, Lundstrom I// *Swedish Univ Agr Sci, Dept Microbiol, Box 7025, S-75007 Uppsala, Sweden
Ind J Food Microbiol 1997 **35** (2) 187
 Electronic nose for microbial quality classification of grains
- Justesen U, Knuthsen P, Leth T// Natl Food Agcy Denmark, Morkhoj Bygade 19, DK-2860 Soborg, Denmark
Cancer Lett 1997 **114** (1-2) 165
 Determination of plant polyphenols in Danish foodstuffs by HPLC-UV and LC-MS detection
- Katsaboukakis K// Inst Technol Agr Prod, 1 Sofokli Venizelou St, GR-14123 Athens, Greece
J AOAC Int 1997 **80** (2) 439
 Determination of moisture in raisins
- Keusgen M// Univ Bonn, Inst Pharmazeut Biol, Nussallee 16, D-53115 Bonn, Germany
Planta Med 1997 **63** (1) 93
 TLC analysis of *Allium sativum* constituents (Letter)
- Khokhar S, Venema D, Hollman PCH*, Dekker M, Jongen W// *State Inst Qual Control Agr Prod, DLO, Rijklt Bomssesteeg 45, NL-6708 PD Wageningen, The Netherlands
Cancer Lett 1997 **114** (1-2) 171
 A RP-HPLC method for the determination of tea catechins
- Pena A, Garcia V, Romero MDLL, Capella S// Natl Autonomous Univ Mexico, Lab Chromatog, Mexico City 04510, DF, Mexico
J Chromatogr Sci 1997 **35** (4) 161
 Reversed-phase ion-pair chromatography of anthocyanins in red wines
- Peters AM, Van Amerongen A**// *DLO, ATO, Agrotechnol Res Inst, POB 17, NL-6700 AA Wageningen, The Netherlands
Z Lebensm Unters Forsch A-Food Res 1997 **204** (3) 189
 A study on the effects of sample pre-treatment on the amount of sesquiterpene lactones found in chicory (*Cichorium intybus* L) by ELISA and by HPLC
- Pfeiffer P, Orben C// Univ Mainz, Inst Mikrobiol & Weinforsch, JJ Becherweg 15, D-55099 Mainz, Germany
Deut Lebensm-Rundsch 1997 **93** (2) 47
 Determination of nisin in wine after solid phase extraction and high performance liquid chromatography (German, English Abstract)
- Picinelli A, Suarez B, Mangas J// CIATA, Consejeria Agr, Principado Asturias, E-33300 Villaviciosa, Asturias, Spain
Z Lebensm Unters Forsch A-Food Res 1997 **204** (1) 48
 Analysis of polyphenols in apple products
- Pietsch K, Waiblinger H, Brodmann P, Wurz A// Chem Landesuntersuchungsanstalt, Bissierstr 5, D-79114 Freiburg, Germany
Deut Lebensm-Rundsch 1997 **93** (2) 35
 Screening methods for identification of "genetically modified" food of plant origin (German, English Abstract)
- Rossmann A, Koziat J, Martin GJ, Dennis MJ**// *CSL, Food Sci Lab, Norwich Res Pk, Colney NR4 7UQ, England
Anal Chim Acta 1997 **340** (1-3) 21
 Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method): A European interlaboratory comparison
- Suzuki Y, Esumi Y, Uramoto M, Kono Y, Sakurai A// RIKEN, Inst Phys & Chem Res, Hirosawa 2-1, Wako, Saitama 35101, Japan
Biosci Biotechnol Biochem 1997 **61** (3) 480
 Structural analyses of carbon chains in 5-alk(en)ylresorcinols of rye and wheat whole flour by tandem mass spectrometry
- Upchurch BL, Throop JA, Aneshansley DJ// USDA/ARS, Appalachian Fruit Res Stn, 45 Wiltshire Rd, Kearneysville, WV 25430, USA
Postharvest Biol Technol 1997 **10** (1) 15
 Detecting internal breakdown in apples using interactance measurements
- Villaruel M, Biolley E, Miranda H, Wittig E, Catalan M// Univ La Frontera, Temuco, Chile
Arch Latinoamer Nutr 1996 **46** (3) 230
 Sensory characterization of lupin pudding using surface response methodology (Spanish, English Abstract)
- Villaruel M, Biolley E, Larenas G, Wittig E, Diaz V, Munoz Y// Address as above.
Arch Latinoamer Nutr 1996 **46** (3) 234
 Chemical, sensory and clinical characterization of lupin marmalades (Spanish, English Abstract)
- Whitaker BD, Solomos T, Harrison DJ// USDA/ARS, BARC, Hort Crops Qual Lab, Beltsville, Md 20705, USA
J Agr Food Chem 1997 **45** (3) 760
 Quantification of α -farnesene and its conjugated trienol oxidation products from apple peel by C-18-HPLC with UV detection
- Witthop B, Richling E, Roscher R, Schwab W, Schreiber P**// *Univ Wurzburg, Lehrstuhl Lebensmittelchem, Hubland, D-97074 Wurzburg, Germany
J Agr Food Chem 1997 **45** (3) 907
 Sensitive and selective screening for 6'-O-malonylated glucoconjugates in plants