

# Bibliography of analytical, nutritional and clinical methods

(Five weeks journals - Search completed at 7th Feb 1996)

## 1 BOOKS, REVIEWS & SYMPOSIA

D'Haese PC, Van Landeghem GF, Lamberts LV, De Broe ME\*// \*Univ Antwerp Hosp, Dept Nephrol Hypertens, Wilrijkstr 10B, B-2650 Edegem, Belgium  
*Mikrochim Acta* 1995 **120** (1-4) 83

HPLC-AAS hybrid technique for studying the speciation of trace metals (Al, Fe, Si, Hg) in biological fluids: A review of applications, recent experiences and perspectives

Kirby AR, Gunning AP, Morris VJ// AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England

*Trends Food Sci Technol* 1995 **6** (11) 359

Atomic force microscopy in food research: A new technique comes of age (Review)

Mosandl A// Univ Frankfurt, Inst Lebensmittelchem, D-60439 Frankfurt, Germany

*Food Rev Int* 1995 **11** (4) 597

Enantioselective capillary gas chromatography and stable isotope ratio mass spectrometry in the authenticity control of flavors and essential oils (Review)

## 2 GENERAL

Bizani M, Koletsos K, Matamis D, Lagonidis D, Gerogianni N, Botsios D, Riggos D// G Papanicolaou Gen Hosp, Dept ICU, Thessaloniki, Greece  
*Nutr Res* 1995 **15** (12) 1747

Comparison of two methods, the thermodilution method of Fick and the Douglas bag method, in estimating the resting energy expenditure (REE)

Champion D, Hervet H, Blond G, Simatos D// Univ Bourgogne, Ecole Natl Super Biol Appl Nutr & Aliment, F-21000 Dijon, France

*J Agr Food Chem* 1995 **43** (11) 2887

Comparison between two methods to measure translational diffusion of a small molecule at subzero temperature

Goff HD// Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

*Pure Appl Chem* 1995 **67** (11) 1801

The use of thermal analysis in the development of a better understanding of frozen food stability

Guy RCE, Osborne BG// Campden & Chorleywood Food Res Assoc, Rickmansworth Rd, Chorleywood WD3 5SH, Herts, England

*J Food Eng* 1996 **27** (3) 241

The application of near infrared reflectance spectroscopy to measure the degree of processing in extrusion cooking processes

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Anguita G, Martin R, Garcia T, Morales P, Haza AI, Gonzalez I, Sanz B, Hernandez PE// Univ Complutense Madrid, Fac Vet, Dept Nutr & Bromatol 3, E-28040 Madrid, Spain

*J Dairy Res* 1995 **62** (4) 655

Indirect ELISA for detection of cows' milk in ewes' and goats' milks using a monoclonal antibody against bovine  $\beta$ -casein

Aoki N, Kishi M, Taniguchi Y, Adachi T, Nakamura R, Matsuda T\*// \*Nagoya Univ, Sch Agr Sci, Dept Appl Biol Sci, Chikusa ku, Nagoya, Aichi 46401, Japan

*BBA-Gen Subjects* 1995 **1245** (3) 385

Molecular cloning of glycoprotein antigens MGP57/53 recognized by monoclonal antibodies raised against bovine milk fat globule membrane

Carias D, Cioccia AM, Hevia P// Univ Simon Bolivar, Nutr Lab, Caracas 1086A, Venezuela

*Arch Latinoamer Nutr* 1995 **45** (2) 111

Agreement between the protein digestibility of animal and vegetable proteins measured *in vivo* and *in vitro* and its effects on the chemical score (Spanish, English Abstract)

Copikova J// Inst Chem Technol, Sofia, Bulgaria

*Listy Cukrov* 1995 **111** (10) 291

Determination of proteins in starch syrups (Czech, English Abstract)

Denery-Papini S, Morel MH, Holder F, Bonicel J, Van Regenmortel MHV// CNRS, UPR 9021, Inst Biol Molec & Cellulaire, 15 rue Descartes, F-67084 Strasbourg, France

*J Cereal Sci* 1995 **22** (3) 225

Characterisation of polyclonal and monoclonal anti-peptide antibodies specific for some low  $M_r$  subunits of wheat glutenin and their use in the detection of allelic variants at Glu-3 loci

Haginaka J, Yamaguchi Y, Kunitomo M// Mukogawa Women's Univ, Fac Pharmaceut Sci, 11-68 Kashien Kyuban cho, Nishinomiya, Hyogo 663, Japan

*Anal Biochem* 1995 **232** (2) 163

Anion-exchange high-performance liquid chromatographic assay of plasma lipoproteins

Halgerson JL, Sheaffer CC\*, Hesterman OB, Griffin TS, Stern MD, Randall GW// \*Univ Minnesota, Dept Agron & Plant Genet, St Paul, Mn 55108, USA

*Agron J* 1995 **87** (6) 1227

Prediction of ruminal protein degradability of forages using near infrared reflectance spectroscopy

Harding SE// Univ Nottingham, Dept Appl Biochem & Food Sci, Sutton LE12 5RD, England

*Nahrung* 1995 **39** (5-6) 375

Some recent developments in the analytical ultracentrifugation of food proteins

Heinisch O, Kowalski E, Goossens K, Frank J, Heremans K, Ludwig H, Tauscher B\*// \*Fed Res Ctr Nutr, Inst Chem & Biol, Engesserstr 20, D-76131 Karlsruhe, Germany

*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 562

Pressure effects on the stability of lipoxygenase: Fourier transform-infrared spectroscopy (FT-IR) and enzyme activity studies

Hou G, Ng PKW\*// \*Michigan State Univ, Dept Food Sci & Human Nutr, West Lansing, Mi 48824, USA

*Cereal Chem* 1995 **72** (6) 545

Quantification and glutenin subunits by sequential acetone precipitation and by sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) coupled with densitometry using a known quantity of glutenins as a standard

Hu AZ, Cruzado ID, Hill JW, McNeal CJ, Macfarlane RD\*// \*Texas A&M Univ, Dept Chem, College Stn, Tx 77843, USA

*J Chromatogr A* 1995 **717** (1-2) 33

Characterization of lipoprotein(a) by capillary zone electrophoresis

Kaminarides SE, Kandarakis JG, Moschopoulou E// Agr Univ Athens, Dairy Technol Lab, GR-11855 Athens, Greece

*Aust J Dairy Technol* 1995 **50** (2) 58

Detection of bovine milk in ovine Halloumi cheese by electrophoresis of  $\alpha$ -s1-casein

Kulczykowska E// Polish Acad Sci, Ctr Marine Biol, SW Wojciecha 5 St, PL-81347 Gdynia, Poland

*J Chromatogr B-Biomed Appl* 1995 **673** (2) 289

Solid-phase extraction of arginine vasotocin and isotocin in fish samples and subsequent gradient reversed-phase high-performance liquid chromatographic separation

Kumar R, Bhatia KL, Dauter Z, Betzel C, Singh TP\*// \*Nat'l Dairy Res Inst, Div Dairy Chem, Karnal 132001 Haryana, India

*Acta Crystallogr D-Biol Cryst* 1995 **51** (6) 1094

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.

- Purification, crystallization and preliminary X-ray crystallographic analysis of lactoperoxidase from buffalo milk
- Laligant A, Marti J, Cheffel JC, Dumay E, Cuq JL\*// \*Univ Montpellier 2, Lab Genie Biol & Sci Aliments, Pl E Bataillon, F-34095 Montpellier 2, France  
*J Agr Food Chem* 1995 **43** (11) 2896
- Detection of conformational modifications of heated  $\beta$ -lactoglobulin by immunochemical methods
- Liebich HM, Lehmann R\*, Weiler AE, Grubler G, Voelter W// \*Univ Tubingen, Med Klin & Poliklin, Endokrinol & Klin Chem Abt 4, Otfried Muller Str 10, D-72076 Tubingen, Germany  
*J Chromatogr A* 1995 **717** (1-2) 25
- Capillary electrophoresis, a rapid and sensitive method for routine analysis of apolipoprotein A-I in clinical samples
- Lookhart G, Bean S// USDA/ARS, Nth Cent Reg, US Grain Mkt Res Lab, 1515 Coll Ave, Manhattan, Ks 66502, USA  
*Cereal Chem* 1995 **72** (6) 527
- Separation and characterization of wheat protein fractions by high-performance capillary electrophoresis
- Marcovina SM, Lippi G, Guidi G// Univ Washington, Dept Med, NW Lipid Res Labs, 2121 Nth 35th St, Seattle, Wa 98103, USA  
*Int J Clin Lab Res* 1995 **25** (4) 201
- Lipoprotein(a) immunoassays: Comparison of a semi-quantitative latex method and two monoclonal enzyme immunoassays
- Mendez E, Camafeita E, San Sebastian J, Valle I, Solis J, Mayer-Posner FJ, Suckau D, Marfisi C, Soriano F// Campus Universidad Autonoma, Ctro Nacl Biotecnol, Unidad Anal Estruct Protein, Cantoblanco, E-28049 Madrid, Spain  
*J Mass Spectrometry/Rapid Commun Mass Spectrom* 1995 S123
- Direct identification of wheat gliadins and related cereal prolamins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry
- Michalke B// GSF Forschungszentrum Umwelt & Gesundheit, D-85758 Neuherberg, Germany  
*J Chromatogr A* 1995 **716** (1-2) 323
- Capillary electrophoretic methods for a clear identification of selenoamino acids in complex matrices such as human milk
- Missler U, Walek T, Stange E// Med Univ Lubeck, Inst Radiol, Ratzeburger Allee 160, D-23538 Lubeck, Germany  
*Eur J Clin Chem Clin Biochem* 1995 **33** (11) 805
- Time-resolved immunofluorometric assay for the quantification of lipoprotein(a) in serum
- Nakajima T, Sakagishi Y, Katahira T, Nagata A, Kuwae T, Nakamura H, Inoue I, Takahashi K, Katayama S, Komoda T// Saitama Med Sch, Dept Biochem 1, 38 Morohongo, Moroyama, Iruma-gun, Saitama 35004, Japan  
*Biochem Biophys Res Commun* 1995 **217** (2) 407
- Characterization of a specific monoclonal antibody 9F5-3a and the development of assay system for oxidized HDL
- Nauck M, Winkler K, Marz W, Wieland H// Univ Hosp Germany, Dept Med, Div Clin Chem, Hugstetter Str 55, D-79106 Freiburg, Germany  
*Clin Chem* 1995 **41** (12 Pt 1) 1761
- Quantitative determination of high-, low-, and very-low-density lipoproteins and lipoprotein(a) by agarose gel electrophoresis and enzymatic cholesterol staining
- O'Reilly E, Lanza J// Indiana Univ, Dept Biol, Bloomington, In 47405, USA  
*Ecology* 1995 **76** (8) 2656
- Fluorescamine: A rapid and inexpensive method for measuring total amino acids in nectars
- Robinson DG, Haschke HP, Hinz G, Hoh B, Maeshima M, Marty F// Univ Gottingen, Inst Pflanzenphysiol, Untere Karspule 2, D-37073 Gottingen, Germany  
*Planta* 1996 **198** (1) 95
- Immunological detection of tonoplast polypeptides in the plasma membrane of pea cotyledons
- Singh TK, Fox PF, Healy A// Univ Coll Cork, Dept Food Chem, Cork, Rep Ireland  
*J Dairy Res* 1995 **62** (4) 269
- Water-soluble peptides in Cheddar cheese: Isolation and identification of peptides in the diafiltration retentate of the water-soluble fraction
- Soevik T// Natl Coll Safety Engr, Skaaregt 103, Haugesund, Norway  
*Anim Feed Sci Tech* 1995 **56** (3-4) 277
- Relationship between analysed and theoretical content of crude protein in standardized formulated feed mixtures for ruminants
- Sousa IMN, Mitchell JR, Ledward DA, Hill SE, De Costa MLB// Univ Tecn Lisbon, Inst Super Agron, P-1399 Lisbon, Portugal  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 566
- Differential scanning calorimetry of lupin and soy proteins
- Turner JB, Garner GV, Gordon DB, Smith CA// Manchester Metropolitan Univ, Dept Sci Biol, Manchester M1 5GD, England
- Biochem Soc Trans* 1995 **23** (4) S632
- Purification and partial sequence of an  $\alpha$ 3-gliadin
- Weegels PL, Hamer RJ\*, Schofield JD// \*TNO, Nutr & Food Res, Div Biochem & Gene Technol, POB 360, 3700 AJ Zeist, The Netherlands  
*J Cereal Sci* 1995 **22** (3) 211
- RP-HPLC and capillary electrophoresis of subunits from glutenin isolated by SDS and Osborne fractionation
- Westerlund J, Yao ZM\*// \*Univ Ottawa, Inst Heart, Lipoprot & Atherosclerosis Grp, 1053 Carling Ave, Ottawa, Ontario, Canada K1Y 4E9  
*J Chromatogr A* 1995 **718** (1) 59
- Elution of lipoprotein fractions containing apolipoproteins E and A-I in size exclusion on Superose 6 columns is sensitive to mobile phase pH and ionic strength
- Yang CY, Xie YH, Yang ML, Quion JA, Gotto AM// Baylor Coll Med, Dept Med, Houston, Tx 77030, USA  
*J Protein Chem* 1995 **14** (7) 503
- ELISA quantitation of apolipoproteins in plasma lipoprotein fractions: ApoE in ApoB-containing lipoproteins (Lp B:E) and ApoB in ApoE-containing lipoproteins (Lp E:B)
- Yang G, Wehling RL\*, Zeece MG, Partridge JE, Shelton DR// \*Univ Nebraska, Dept Food Sci & Technol, 143 Filley Hall, Lincoln, Ne 68583, USA  
*Cereal Chem* 1995 **72** (6) 568
- Characterization of hard red winter wheat storage proteins by two-dimensional electrophoresis and their correlations with selected quality parameters

#### 4 CARBOHYDRATES

- Araujo PB// Address not available.  
*Int Sugar J* 1995 **97** (1163) 642
- Comparison of HPLC with the Lane-Eymon method
- Linnane P, James TD, Imazu S, Shinaki S\*// \*ERATO, Shinkia Chemirecon Project, Aikawa 2432-3, Kurume, Fukuoka 830, Japan  
*Tetrahedron Lett* 1995 **36** (48) 8833
- A sweet toothed saccharide (PET) sensor
- Mohamed AA, Rayas-Duarte P// Nth Dakota State Univ, Dept Cereal Sci, Fargo, ND 58105, USA  
*Cereal Chem* 1995 **72** (6) 648
- Nonstarchy polysaccharide analysis of cotyledon and hull of *Lupinus albus*
- Mustafa MH// Univ Mosul, Saddam Res Ctr Dams & Water Resources, Mosul, Iraq  
*Int Sugar J* 1995 **97** (1163) 614
- The use of aluminium hydroxide in sugar analyses: An alternative coagulant to basic lead acetate
- Stoytcheva M, Nankov N, Sharkova V// Inst Foreign Students, Dept Chem, 27 K Lulchev Str, BU-1111 Sofia, Bulgaria  
*Anal Chim Acta* 1995 **315** (1-2) 101
- Analytical characterisation and application of a *p*-benzoquinone mediated amperometric graphite sensor with covalently linked glucose oxidase
- Stuckel JG, Low NH\*// \*Univ Saskatchewan, Dept Appl Microbiol & Food Sci, 51 Campus Dr, Saskatoon, Saskatchewan, Canada S7N 5A8  
*J Agr Food Chem* 1995 **43** (12) 3046
- Maple syrup authenticity analysis by anion-exchange liquid chromatography with pulsed amperometric detection
- Van Soest JGG, Tournois H, De Wit D, Vliegthart JFG// Agrotechnol Res Inst, DLO, POB 17, 6700 AA Wageningen, The Netherlands  
*Carbohydr Res* 1995 **279** 201
- Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy

#### 5 LIPIDS

- Batta AK, Salen G, Tint GS, Shefer S// Univ Med & Dent New Jersey, Sch Med, Dept Med, Newark, NJ 07103, USA  
*J Lipid Res* 1995 **36** (11) 2413
- Identification of 19-nor-5,7,9(10)-cholestatrien-3 $\beta$ -ol in patients with Smith-Lemli-Opitz syndrome
- Bonzom P, Zloh M, Baldeo W, Nicolaou A, Gibbons WA// Univ London, Sch Pharm, Dept Pharmaceut Chem, 29-39 Brunswick Sq, London WC1N 1AX, England  
*Biochem Soc Trans* 1995 **23** (4) S613
- NMR lipids profiles of common mushrooms
- Breuer O// Huddinge Univ Hosp, Karolinska Inst, Dept Med Lab Sci 7 Technol, Div Clin Chem, S-14186 Huddinge, Sweden  
*J Lipid Res* 1995 **36** (11) 2275
- Identification and quantitation of cholest-5-ene-3 $\beta$ ,4 $\beta$ -diol in rat liver and hu-

- man plasma
- Canizares P, Luque de Castro MD\*// \*Univ Cordoba, Fac Sci, Dept Analyt Chem, E-14004 Cordoba, Spain  
*Analyst* 1995 **120** (12) 2837  
Flow-through spectrofluorimetric sensor for the determination of glycerol in wine
- De la Presa-Owens S, Lopez-Sabater MC, Rivero-Urgell M// Univ Barcelona, Fac Pharm, Dept Human Physiol Sci, Avda Joan 13 s/n, E-08028 Barcelona, Spain  
*J Agr Food Chem* 1995 **43** (11) 2879  
Shelf-life prediction of an infant formula using an accelerated stability test (Rancimat)
- De Meulenaer B, Van der Meeren P, Vanderdeelen J, Baert L// State Univ Ghent, Fac Agr & Appl Biol Sci, Dept Appl Analyt & Phys Chem, Coupure Links 653, B-9000 Ghent, Belgium  
*Chromatographia* 1995 **41** (9-10) 527  
Optimization of a chromatographic method for the gram-scale preparative fractionation of soybean phospholipids
- Dimmitt SB, Watts GF// Univ Western Australia, Royal Perth Hosp, Dept Med, Wellington St, Perth 6000, WA, Australia  
*Med J Australia* 1995 **163** (8) 425  
Serum HDL cholesterol: Should it be routinely measured? (Viewpoint)
- Dobarganes MC, Marquez-Ruiz G// Inst Grasa, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain  
*Grasas Aceites* 1995 **46** (3) 196  
Quality control of used frying fats. Validity of quick tests to substitute polar compound determination (Spanish, English Abstract)
- Griffiths WJ, Yang Y, Lindgren JA, Sjovall J// Karolinska Inst, Div Physiol Chem, Dept Med Biochem & Biophys, S-17177 Stockholm, Sweden  
*Rapid Commun Mass Spectrom* 1996 **10** (1) 21  
Charge remote fragmentation of fatty acid anions in 400 eV collisions with xenon atoms
- Hartwig M, Hartmann S, Steinhart H\*// \*Univ Hamburg, Inst Biochem & Lebensmittelchem, Grindelallee 117, D-20146 Hamburg, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 533  
Determination of naturally occurring sex steroids (androgens and progestogens) in beef (German, English Abstract)
- Hassall DG, Graham A// Wellcome Res Labs, Langley Court, Beckenham BR3 3BS, Kent, England  
*Cytometry* 1995 **21** (4) 352  
Changes in free cholesterol content, measured by filipin fluorescence and flow cytometry correlate with changes in cholesterol biosynthesis in THP-1 macrophages
- Iibuchi S// Wayo Women's Univ, 2-3-1 Konodai, Ichikawa, Chiba 272, Japan  
*Nippon Nogeikagaku Kaishi* 1996 **70** (1) 29  
Analysis of the autoxidation rate of edible oils (Japanese, English Abstract)
- Itami S, Araki T\*// \*Univ Tokushima, Fac Engn, Dept Mech Engn, Jousanjima, Tokushima 770, Japan  
*Anal Sci* 1995 **11** (6) 973  
Development of a simple chemiluminometer to determine acid value of edible oil free of the inner-filter effect
- Jia L, Zhang HX, Kou XL, Hu ZD\*// \*Lanzhou Univ, Dept Chem, Lanzhou 730000, Peoples Rep China  
*Chromatographia* 1995 **41** (9-10) 605  
Separation and determination of 10-hydroxy-2-decenoic acid in royal jelly by capillary electrophore
- Kerwin JL, Wiens AM, Ericsson LH// Univ Washington, Dept Bot 351330, Seattle, Wa 98195, USA  
*J Mass Spectrometry* 1996 **31** (2) 184  
Identification of fatty acids by electrospray mass spectrometry and tandem mass spectrometry
- Kondratowicz-Pietruszka E, Ostasz L// Wirtschafts Hsch Krakau, Lehrstuhl Chem & Kinet Prozessen, ul Sienkiewicza 5, PL-30033 Krakow, Poland  
*Fett Wiss Technol* 1995 **97** (11) 414  
New quantitative methods for the estimation of changes in the peroxide value of soya bean oil (German, English Abstract)
- Kuroda N, Taguchi Y, Nakashima K\*, Akiyama S// \*Nagasaki Univ, Sch Pharmaceut Sci, 1-14 Bunkyo machi, Nagasaki 852, Japan  
*Anal Sci* 1995 **11** (6) 989  
Fluorometric determination of eicosapentaenoic and docosahexaenoic acids by high-performance liquid chromatography
- Littmann-Nienstedt S// Chem Untersuchungsamt Stadt Hamm, Sachsenweg 6, D-59073 Hamm, Germany  
*Arch Lebensmittelhyg* 1995 **46** (5) 119  
Herring in cream sauce: Analytics and behaviour of the milk fat portion during production and storage (German, English Abstract)
- Man YBC, Swe PZ// Univ Pertanian Malaysia, Dept Food Technol, Serdang 43400, Malaysia  
*J Amer Oil Chem Soc* 1995 **72** (12) 1529  
Thermal analysis of failed-batch palm oil by differential scanning calorimetry
- Medina I, Sacchi R, Aubourg SP// CSIC, Inst Invest Marinas, Eduardo Cabello 6, E-36208 Vigo, Spain  
*J Sci Food Agr* 1995 **69** (4) 445  
A <sup>13</sup>C-NMR study of lipid alterations during fish canning: Effect of filling medium
- Neff WE, Byrdwell WC// USDA/ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, Il 61604, USA  
*J Liq Chromatogr* 1995 **18** (20) 4165  
Triacylglycerol analysis by high-performance liquid chromatography-atmospheric pressure chemical ionization mass spectrometry: *Crepis alpina* and *Veronica galamensis* seed oils
- Nizigiyimana L, Van den Heuvel H, Claeys M// Univ Antwerp (UIA), Dept Pharmaceut Sci, Universiteitsplein 1, B-2610 Antwerp, Belgium  
*J Mass Spectrometry/Rapid Commun Mass Spectrom* 1995 S19  
Characterization of 1- and 2-monoacylglycerides by fast atom bombardment, collision-induced dissociation and tandem mass spectrometry
- Okamoto Y, Tanaka S\*, Nakano H// \*Nara Med Univ, Dept Clin Lab Diagnost, Shijo 840, Kashihara, Nara 634, Japan  
*Clin Chem* 1995 **41** (12 Pt 1) 1784  
Measurement of HDL cholesterol preferable to precipitation method (Letter)
- Pan L, Adams M, Pawliszyn J\*// \*Univ Waterloo, Guelph Waterloo Ctr Grad Work Chem, Dept Chem, Waterloo, Ontario, Canada N2L 3G1  
*Anal Chem* 1995 **67** (23) 4396  
Determination of fatty acids using solid phase microextraction
- Penazzi G, Caboni MF, Zunin P, Evangelisti F, Tiscornia E, Toschi TG, Lercker G// Ist Ind Agr, Via S Giacomo 7, I-40126 Bologna, Italy  
*J Amer Oil Chem Soc* 1995 **72** (12) 1523  
Routine high-performance liquid chromatographic determination of free 7-keto-cholesterol in some foods by two different analytical methods
- Pisani T, Gebiski CP, Leary ET, Warnick GR, Ollington JF// Genzyme Diagnost, Res Dept, 1 Kendall Sq, Cambridge, Ma 02139, USA  
*Arch Pathol Lab Med* 1995 **119** (12) 1127  
Accurate direct determination of low-density lipoprotein cholesterol using an immunoseparation reagent and enzymatic cholesterol assay
- Precht D, Molkenin J// Bundesanstalt Milchwforsch, Inst Chem & Phys, POB 6069, D-24121 Kiel, Germany  
*Nahrung* 1995 **39** (5-6) 343  
Trans fatty acids: Implications for health, analytical methods, incidence in edible fats and intake
- Romero A, Cuesta C\*, Sanchez-Muniz FJ// \*Univ Complutense Madrid, CSIC, Fac Farm, Inst Nutr & Bromatol, E-28040 Madrid, Spain  
*Fett Wiss Technol* 1995 **97** (11) 403  
Quantitation and distribution of polar compounds in an extra virgin olive oil used in fryings with turnover of fresh oil
- Romero A, Sanchez-Muniz FJ, Tulasne C, Cuesta C\*// \*Univ Complutense Madrid, CSIC, Inst Nutr Bromatol, E-28040 Madrid, Spain  
*J Amer Oil Chem Soc* 1995 **72** (12) 1513  
High-performance size-exclusion chromatographic studies on a high-oleic acid sunflower oil during potato frying
- Rosmini MR, Perlo F, Perez-Alvarez JA, Pagan-Moreno MJ, Gago-Gago A, Lopez-Santobeva F, Aranda-Catala V// Univ Politecn Valencia, Dept Tecnol Alimentos, Camino Vera 14, E-46022 Valencia, Spain  
*Meat Sci* 1996 **42** (1) 103  
TBA test by an extractive method applied to 'pate'
- Saito M, Ushijima T, Sasamoto K\*, Ohkura Y, Ueno K// \*Dojindo Labs, Tabaru 2025-5, Mashiki, Kumamoto 86122, Japan  
*J Chromatogr B-Biomed Appl* 1995 **674** (2) 167  
2-(5-Hydrazinocarbonyl-2-oxazolyl)-5,6-dimethoxybenzothiazole as a precolumn fluorescence derivatization reagent for carboxylic acids in high-performance liquid chromatography and its application to the assay of fatty acids in human serum
- Schreiner PJ, Pitkaniemi J, Pekkanen J, Salomaa VV\*// \*Natl Publ Hlth Inst, Dept Epidemiol & Hlth Promot, Mannerheimintie 166, SF-00300 Helsinki, Finland  
*J Clin Epidemiol* 1995 **48** (11) 1361  
Reliability of near-infrared interactance body fat assessment relative to standard anthropometric techniques
- Stenzel WR, Wunderlich HP// Free Univ Berlin, Fachbereich Vet Med, Inst Lebensmittelhyg, Luisenstr 56, D-10117 Berlin, Germany  
*Arch Lebensmittelhyg* 1995 **46** (5) 103  
New scientific findings on cholesterol and determination of its degradation products in foods (German, English Abstract)

Takamura K, Fuse T, Kusu F// Tokyo Univ Pharm & Life Sci, Sch Pharm, Hachioji, Tokyo 19203, Japan  
*Anal Sci* 1995 **11** (6) 979

Determination of the free fatty acid content in fats and oils by flow injection analysis with electrochemical detection

Thies W// Univ Gottingen, Inst Agron & Plant Breeding, Von Siebold Str 8, D-37075 Gottingen, Germany  
*Fett Wiss Technol* 1995 **97** (11) 411

Determination of the petroselinic acid in seeds of *Coriandrum sativum* by gas liquid chromatography as *n*-butyl esters

Wolff RL, Bayard CC, Fabien RJ// Univ Bordeaux 1, Lab Lipochim Alimentaire, Istab Allee Fac, F-33405 Talence, France  
*J Amer Oil Chem Soc* 1995 **72** (12) 1471

Evaluation of sequential methods for the determination of butterfat fatty acid composition with emphasis on *trans*-18:1 acids. Application to the study of seasonal variations in French butters

## 6 VITAMINS & CO-FACTORS

Barth MM, Zhou C, Kute KM, Rosenthal GA// Univ Kentucky, Sch Biol Sci, Dept Nutr & Food Sci, 204 Funkhouser Bldg, Lexington, Ky 40506, USA  
*J Agr Food Chem* 1995 **43** (11) 2876

Determination of optimum conditions for supercritical fluid extraction of carotenoids from carrot (*Daucus carota* L) tissue

Dionisi F, Prodollet J, Tagliaferri E// Nestec Ltd, Nestle Res Ctr, Vers Chez les Blanc, CH-1000 Lausanne 26, Switzerland  
*J Amer Oil Chem Soc* 1995 **72** (12) 1505

Assessment of olive oil adulteration by reversed-phase high-performance liquid chromatography amperometric detection of tocopherols and tocotrienols

Finckh B, Kontush A, Commentz J, Hubner C, Burdelski M, Kohlschutter A// Univ Krankenhaus Eppendorf, Kinderklin, Neurochem Lab, Martinistr 52, D-20246 Hamburg, Germany  
*Anal Biochem* 1995 **232** (2) 210

Monitoring of ubiquinol-10, ubiquinone-10, carotenoids, and tocopherols in neonatal plasma microsomes using high-performance liquid chromatography with coulometric electrochemical detection

Garrabrant TA, End DW// Janssen Res Fdn, Spring House, Pa 19477, USA  
*J Pharmacol Toxicol Method* 1995 **34** (4) 219

A rapid assay for measuring the metabolism of [<sup>3</sup>H]-retinoic acid in cell cultures

Hu Y, Mizoguchi T, Kurimoto Y, Koyama Y\*// \*Kwansei Gakuin Univ, Fac Sci, Nishinomiya, Hyogo 662, Japan  
*Spectrochim Acta Pt A-Mol Biol Spect* 1995 **51** (11) 1949

Isolation by high-pressure liquid chromatography of *cis-trans* isomers of  $\beta$ -apo-12'-carotenal and determination of their configurations by <sup>1</sup>H NMR spectroscopy

Kull D, Pfander H\*// \*Univ Bern, Inst Organ Chem, Freiestr 3, CH-3012 Bern, Switzerland  
*J Agr Food Chem* 1995 **43** (11) 2854

Isolation and identification of carotenoids from the petals of rape (*Brassica napus*)

Levine M, Dhariwal KR, Welch RW, Wang YH, Park JB// Bldg 8, Rm 415, MSC 0850, Bethesda, Md 20892, USA  
*Amer J Clin Nutr* 1995 **62** (6) S1347

Determination of optimal vitamin C requirements in humans

Motonaka J, Mishima Y, Ikeda S, Tanaka N// Univ Tokushima, Fac Engn, Dept Chem Sci & Technol, 2-1 Minami-Josanjima, Tokushima 770, Japan  
*Bunseki Kagaku* 1995 **44** (12) 1013

Differential determination of a mixture of vitamin A- $\beta$ -carotene by potentiometric titration utilizing a reaction with *N*-bromosuccinimide and iodine (Japanese, English Abstract)

Muller H// Bundesforsch Anstalt Ernährung, Inst Ernährungsphysiol, Engeserstr 20, D-76131 Karlsruhe, Germany  
*Fett Wiss Technol* 1995 **97** (11) 397

Carotenoids in the total diet: Determination of the daily intake of individual derivatives (German, English Abstract)

Murthy ASN, Anita// Indian Inst Technol, Dept Chem, New Delhi 110 016, India  
*Biosens Bioelectron* 1996 **11** (1-2) 191

Tetrahydrofulvalene as a mediator for the electrocatalytic oxidation of L-ascorbic acid

Ozgun MU, Sungur S// Yizid Tech Univ, Dept Chem, 80270 Istanbul, Turkey  
*Talanta* 1995 **42** (11) 1631

Third order derivative spectrophotometric determination of ascorbic acid in fruits and vegetables

Schiewe J, Mrestani Y, Neubert R// Univ Halle Wittenberg, Inst Pharmaceut

Technol & Biopharmaceut, Weinbergweg 15, D-06120 Halle, Germany  
*J Chromatogr A* 1995 **717** (1-2) 255

Application and optimization of capillary zone electrophoresis in vitamin analysis

Sharpless KS, Duewer DL\*// \*NIST, Chem Sci & Technol Lab, Div Analyt Chem, Gaithersburg, Md 20899, USA  
*Anal Chem* 1995 **67** (23) 4416

Population distributions and intralaboratory reproducibility for fat-soluble vitamin related compounds in human serum

Tanumihardjo SA, Suharno D, Permaesih D, Muherdiyantiningsih, Dahro AM, Muhilal, Karyadi D, Olson JA// Iowa State Univ Sci & Technol, Dept Biochem & Biophys, 3258 Molec Biol Bldg, Ames, Ia 50011, USA  
*Eur J Clin Nutr* 1995 **49** (12) 897

Application of the modified relative dose response test to pregnant Indonesian women for assessing vitamin A status

Wilson DH, Herrmann R, Hsu S, Biegalski T, Sohn L, Forsythe C, Novotny M, Beggs M, Manderino G// Abbott Labs, Dept Thyroid Metab & Cardiovasc Diagnost, R/D (D-93Z), 200 Abbott Pk Rd, Abbott Pk, Il 60064, USA  
*Clin Chem* 1995 **41** (12 Pt 1) 1780

Ion capture assay for folate with the Abbott IMx® analyzer

Young JC// Agr & Agri-Food Canada, Plant Res Ctr, Ottawa, Ontario, Canada K1A 0C6  
*J Agr Food Chem* 1995 **43** (11) 2904

Microwave-assisted extraction of the fungal metabolite ergosterol and total fatty acids

## 7 TRACE ELEMENTS & MINERALS

Anzano JM, Perise E, Belarra MA, Castillo JR// Univ Zaragoza, Dept Analyt Chem, Analyt Spectroscopy & Sensors Grp, E-50009 Zaragoza, Spain  
*Microchem J* 1995 **52** (3) 268

Determination of calcium and copper in feedstuffs by atomic absorption spectrometry following a digestion procedure with H<sub>2</sub>SO<sub>4</sub> + H<sub>2</sub>O<sub>2</sub>

Bayat I, Etehadiyan M, Ansari M// Atom Energy Org Iran, POB 11365-8486, Tehran, Iran  
*Nutrit* 1995 **11** (5) 535

Determination of selected trace elements in foodstuffs and biological materials by destructive neutron activation analysis

Chaudhri MA// Univ Melbourne, Austin Hosp, POB 81, Melbourne, Vic 3052, Australia  
*Nutrit* 1995 **11** (5) 538

Nuclear analytical methods in calcified tissue research

Czaundera M, Turska M, Sitowska B// Polish Acad Sci, Kielanowski Inst Anim Physiol & Nutr, PL-05110 Jablonna, Poland  
*Appl Radiat Isotopes* 1995 **47** (1) 105

Use of INAA to study the determination of Se, Th, Zn, Co and Fe levels of yeast cells

Duly EB, Luney SR\*, Trinick TR, Murray JM, Comer JEA// \*14 Huntingdale, Ballyclare BT39 9XB, Northern Ireland  
*J Autom Chem* 1995 **17** (6) 219

Validation of an ion selective electrode system for the analysis of serum fluoride ion

Finley JW, Vanderpool RA, Korynta E// USDA/ARS, Grand Forks Human Nutr Res Ctr, Box 9034, Grand Forks, ND 58202, USA  
*Proc Soc Exp Biol Med* 1995 **210** (3) 270

Use of stable isotopic selenium as a tracer to follow incorporation of selenium into selenoproteins

Fonseca RW, Miller-Ihli NJ\*// \*USDA/ARS, Beltsville Human Nutr Res Ctr, Food Compos Lab, Beltsville, Md 20705, USA  
*Appl Spectrosc* 1995 **49** (10) 1403

Analyte transport studies of aqueous solutions and slurry samples using electrothermal vaporization ICP-MS

Giussani A, Hansen C, Nusslin F, Werner E\*// \*GSF Forschungszentrum Umwelt & Gesundheit, Inst Strahlenschutz, D-85758 Oberschleissheim, Germany  
*Int J Mass Spectrom Ion Proc* 1995 **148** (3) 171

Application of thermal ionization mass spectrometry to investigations of molybdenum absorption in humans

Hosoi Y, Watanabe Y, Sugita R, Tanaka Y, Nagamine K, Ono T, Sakamoto K// Tohoku Univ, Sch Med, Dept Radiat Res, Aoba ku, 2-1 Seiryomachi, Sendai, Miyagi 980, Japan  
*Brit J Radiol* 1995 **68** (816) 1325

Non-destructive elemental analysis of vertebral body trabecular bone using muonic X-rays

Huang ZE// Guangzhou Environm Monitoring Ctr, Canton 510030, Peoples Rep China  
*Spectrochim Acta Pt B-Atom Spec* 1995 **50** (11) 1383

- Determination of silicon in serum and urine by electrothermal atomic absorption spectrometry
- Lin JM, Hobo T// Tokyo Metropolitan Univ, Fac Technol, Dept Ind Chem, Minami Oshawal-1, Hachioji, Tokyo 19203, Japan  
*Talanta* 1995 **42** (11) 1619
- Chemiluminescence investigation of NH<sub>2</sub>OH-fluorescein-Cu<sup>2+</sup> system and its application to copper analysis in serum
- Ni BF, Wang PS, Tian WZ// China Inst Atom Energy, POB 275-50, Beijing 102413, Peoples Rep China  
*J Radioanal Nucl Chem Art* 1995 **196** (2) 387
- INAA of IAEA-331 (spinach), SRM, for 40 elements
- Preoteasa EA, Ionescu U// Inst Atom Phys, IFIN Lab, Biophys Grp, Str Corbeni 25, Sector 2, R-70246 Bucharest, Romania  
*Nutrit* 1995 **11** (5) 546
- Fatty-acid peroxidation in relation to trace elements in serum of patients with homozygous sickle-cell anemia and  $\beta$ -thalassemia: A gas-chromatographic study
- Ruiz C, Alegria A, Barbera R, Farre R\*, Lagarda MJ// \*Univ Valencia, Fac Pharm, Avda Vicente Andres Estelles s/n, E-46100 Burjassot, Spain  
*Nahrung* 1995 **39** (5-6) 497
- Direct determination of calcium, magnesium, sodium, potassium and iron in infant formulas by atomic spectroscopy. Comparison with dry and wet digestion methods
- Shtangeeva I, Kulkov V// St Petersburg State Univ, Inst Earth Crust, Univ emb 7/9, St Petersburg 199034, Russia  
*Nutrit* 1995 **11** (5 Suppl) 592
- Study of chemical element behavior in health and disease by means of neutron activation analysis and multivariate statistics
- Soares ME, Bastos ML, Ferreira MA\*// \*Fac Pharm Porto, CECUP, Toxicol Lab, R Anibal Cunha 164, P-4000 Oporto, Portugal  
*Atom Spectrosc* 1995 **16** (6) 256
- Quantification of Ag, Co, Si, and Zn in port wine by atomic absorption spectrometry
- Van Dael PP, Vancauwenbergh R, Robberecht H, Deelstra H// Nestec Ltd, Nestle Res Ctr, Vers Chez les Blanc, POB 44, CH-1000 Lausanne 26, Switzerland  
*Atom Spectrosc* 1995 **16** (6) 251
- Determination of Se in human serum by AAS using electrothermal atomization with longitudinal Zeeman-effect background correction or flow injection hydride generation
- Yang Q, Hartmann C, Smeyers-Verbeke J, Massart DL\*// \*Free Univ Brussels, Inst Pharmaceut, Laarbeeklaan 103, B-1090 Brussels, Belgium  
*J Chromatogr A* 1995 **717** (1-2) 415
- Method development and validation for the determination of mineral elements in food and botanical materials by capillary electrophoresis
- Zhang PF, Allen JC\*// \*Nth Carolina State Univ, Dept Food Sci, Box 7624, Raleigh, NC 27695, USA  
*Biol Tr Elem Res* 1995 **50** (2) 135
- Free zinc concentration in bovine milk measured by analytical affinity chromatography with immobilized metallothionein
- 8 DRUG, BIOCIDES & PROCESSING RESIDUES**
- Andrews P, Headrick K, Pilon JC, Lau B, Weber D// Dept Hlth & Welf, Div Food Res, Ottawa, Ontario, Canada K1A 0L2  
*Chemosphere* 1995 **31** (11-12) 4393
- An interlaboratory round robin study on the analysis of toxaphene in a cod liver oil standard reference material
- Beconi-Barker MG, Roof RD, Millerioux L, Kausche FM, Vidmar TJ, Smith EB, Callahan JK, Hubbard VL, Smith GA, Gilbertson TJ// Upjohn Co, Kalamazoo, MI 49001, USA  
*J Chromatogr B-Biomed Appl* 1995 **673** (2) 231
- Determination of ceftiofur and its desfuroylceftiofur-related metabolites in swine tissues by high-performance liquid chromatography
- Crouch LS, Feely WF// Merck Sharp & Dohme Res Labs, Dept Drug Metab 2, POB 450, Hillsborough Rd, Three Bridges, NJ 08887, USA  
*J Agr Food Chem* 1995 **43** (12) 3075
- Fate of [<sup>14</sup>C]emamectin benzoate in head lettuce
- Elliott CT, Crooks SRH, McCaughey WJ// Residue Lab, Div Vet Sci, Stoney Rd, Belfast BT4 3SD, Northern Ireland  
*Vet Rec* 1995 **137** (24) 643
- Development of a rapid screening test to detect  $\beta$ -agonist residues in bovine eye and hair
- Fernandez-Muino MA, Sancho MT, Muniategui S, Huidobro JF, Simal-Lozano J// Univ Burgos, Fac Ciencia & Tecnol Alimentos, Area Nutr & Bromatol, Plaza Misael Banuelos s/n, E-09001 Burgos, Spain  
*J Food Protect* 1995 **58** (11) 1271
- Nonacaricide pesticide residues in honey: Analytical methods and levels found
- Fucci G, Ciaravolo S, Mazza G// Grp Cirio SCPA, Cirio Ric & Ric Agro-Alimentare, Loc La Fagianeria, I-81015 Piana Monte Verna, Italy  
*Ind Aliment* 1995 **34** (341) 1013
- Determination of carbendazim and thiabendazole residues in fruit and vegetables by high-performance liquid chromatography (Italian, English Abstract)
- Gerhardt GC, Salisbury CDC, Campbell HM// Agr & Agri-Food Canada, Hlth Anim Lab, 116 Vet Rd, Saskatoon, Saskatchewan, Canada S7N 2R3  
*Food Addit Contam* 1995 **12** (6) 731
- Determination of ionophores in the tissues of food animals by liquid chromatography
- Gigosos PG, Sampayo CMF, Belda BV, Abuin CF, Saez AC// Conselleria Sanidade Serv Soc, Lab Salud Publ, Lugo, Spain  
*J Mass Spectrometry/Rapid Commun Mass Spectrom* 1995 S210
- Clenbuterol extraction by diphasic-dialysis and determination of bovine urine by GC-MS (Letter)
- Gottschall DW, Filter ML, Wang R// Pfizer Anim Hlth, Dept Drug Metab & Dev Pharmacokinet, 1600 Paoli Pike, West Chester, Pa 19380, USA  
*J Agr Food Chem* 1995 **43** (11) 2956
- Analysis of tissue residues and comparative metabolism of ardacin in cattle, broilers, and rats
- Gude T, Preiss A, Rubach K// Bundesinst Gesundheitlichen Verbraucherschutz, Diedersdorfer Weg 1, D-12277 Berlin, Germany  
*J Chromatogr B-Biomed Appl* 1995 **673** (2) 197
- Determination of chloramphenicol in muscle, liver, kidney and urine of pigs by means of immunoaffinity chromatography and gas chromatography with electron-capture detection
- Hany J, Nagel R// Univ Dusseldorf, Med Inst Umwelthyg, D-40225 Dusseldorf, Germany  
*Deut Lebensm-Rundsch* 1995 **91** (11) 341
- Detection of sunscreen agents in human breast milk (German, English Abstract)
- Hasegawa M, Sekiguchi Y, Koiguchi S, Kamakura K, Narita M, Hirahara Y, Miyoshi T, Miyata M, Maeda K, Tonogai Y// Kobe Quarantine Stn, Ctr Inspect Imported Foods & Infect Dis, Hyogo ku, 1-1 Toyahama cho, Kobe, Hyogo 652, Japan  
*Jpn J Toxicol Environ Health* 1995 **41** (6) 470
- Studies on the systematic determination of residual organochlorine pesticides and synthetic antibacterials in cattle meats and confirmation of the antibacterials by GC/MS (Japanese, English Abstract)
- Heikes DL, Jensen SR, Fleming-Jones ME// US/FDA, 11510 West 80th St, Lenexa, Ks 66214, USA  
*J Agr Food Chem* 1995 **43** (11) 2869
- Purge and trap extraction with GC-MS determination of volatile organic compounds in table-ready foods
- Hornish RE, Cazars AR, Chester ST, Roof RD// Upjohn Co, Upjohn Labs, Kalamazoo, MI 49001, USA  
*J Chromatogr B-Biomed Appl* 1995 **674** (2) 219
- Identification and determination of pirlimycin residue in bovine milk and liver by high-performance liquid chromatography-thermospray mass spectrometry
- Huang JL, Mather LE\*, Duke CC// \*Univ Sydney, Royal Nth Shore Hosp, Dept Anaesthesia & Pain Management, St Leonards, NSW 2065, Australia  
*J Chromatogr B-Biomed Appl* 1995 **673** (2) 245
- High-performance liquid chromatographic determination of thiopentone enantiomers in sheep plasma
- Jacobs MF, Tynkynen S, Sibakov M// NIDR, Microbial Ecol Lab, Bldg 30, Rm 313, Bethesda, Md 20892, USA  
*Appl Microbiol Biotechnol* 1995 **44** (3-4) 405
- Highly bioluminescent *Streptococcus thermophilus* strain for the detection of dairy-relevant antibiotics in milk
- Lapolla A, Fedele D, Aronica R, Curcuruto O, Hamdan M, Catinella S, Seraglia R, Traldi P\*// \*CNR, Area Ric, Corso Stati Uniti 4, I-35020 Padua, Italy  
*J Mass Spectrometry/Rapid Commun Mass Spectrom* 1995 S69
- Investigation of the reaction between *N*- $\alpha$ -acetyl-L-lysineamide and glucose by electrospray mass spectrometry
- Malucelli A, Rizzo A, Meyer HHD// Tech Univ Munich, Milch & Lebensmittel Weihenstephan Forschungszent, Inst Physiol, D-85354 Freising, Germany  
*Arch Lebensmittelhyg* 1995 **46** (5) 101
- Purification and clenbuterol, salbutamol, and terbutaline by immunoaffinity chromatography (IAC)
- Mukherjee I, Gopal M// Indian Agr Res Inst, Div Agr Chem, Agr Res Serv, New Delhi 110012, India  
*Bull Environ Contam Toxicol* 1996 **56** (3) 381
- Insecticide residues in baby food, animal feed, and vegetables by gas liquid chromatography

- Natzeck C, Vetter W, Luckas B\*, Moskopp G, Buijten J// \*Univ Jena, Inst Ernährung & Umwelt, Dornburger Str 25, D-07743 Jena, Germany  
*Chromatographia* 1995 41 (9-10) 585  
Quantitative determination of toxic mono- and non-ortho polychlorinated biphenyls in cod liver oil after selective liquid chromatographic separation
- Ortiz-Gomez MT, Perez-Arribas LV, Leon-Gonzalez ME, Polo-Diez LM\*// \*Univ Complutense Madrid, Fac Ciencias Quim, Dept Quim Analit, E-28040 Madrid, Spain  
*J Agr Food Chem* 1995 43 (11) 2883  
Liquid chromatography determination of simazine and antimycin A in must
- Quevauviller P, Chiavarini S, Cremisini C, Morabito R, Bianchi M, Muntau H// European Commisss Stand Measurement, rue Loi 200, B-1049 Brussels, Belgium  
*Mikrochim Acta* 1995 120 (1-4) 281  
Preparation and homogeneity study of a mussel candidate reference material for certification of organotin compounds
- Rushing LG, Webb SF, Thompson HC// US/FDA, Natl Ctr Toxicol Res, Dept Hlth & Human Serv, Publ Hlth Serv, 3900 Nctr Dr, Jefferson, Ar 72079, USA  
*J Chromatogr B-Biomed Appl* 1995 674 (1) 125  
Determination of leucogentian violet and gentian violet in catfish tissue by high-performance liquid chromatography with visible detection
- Sharman M, Honeybone CA, Jickells SM, Castle L\*// \*MAFF, CSL Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England  
*Food Addit Contam* 1995 12 (6) 779  
Detection of residues of the epoxy adhesive component bisphenol A diglycidyl ether (BADGE) in microwave susceptors and its migration into food
- Specht K, Platzek T// Tech Univ Berlin, Inst Lebensmittelchem, Gustav Meyer Allee 25, D-13355 Berlin, Germany  
*Deut Lebensm-Rundsch* 1995 91 (11) 352  
Textile dyes and finishes: Remarks to toxicological and analytical aspects (German, English Abstract)
- Unglaub W// Staatl Tierarztl Untersuchungsamt Aulendorf, Lowenbreitestr 1820, D-88326 Aulendorf, Germany  
*Fleischwirtschaft* 1995 75 (12) 1441  
Determination of residues of enrofloxacin using *E. coli*-14 in Fluorocult medium
- Windsor BL, Radulovic LL// Warner Lambert Parke Davis, Parke Davis Pharmaceut Res Div, Pharmacokinet & Drug Metab, Ann Arbor, Mi 48105, USA  
*J Chromatogr B-Biomed Appl* 1995 674 (1) 143  
Measurement of a new anticonvulsant, (S)-3-(aminomethyl)-5-methylhexanoic acid, in plasma and milk by high-performance liquid chromatography
- ## 9 TOXINS
- Abouziied MM, Askegard SD, Bird CB, Miller BM// Neogen Corp, 620 Leshar Pl, Lansing, Mi 48912, USA  
*J Clin Ligand Assay* 1995 18 (3) 145  
Development of a rapid quantitative ELISA for determination of the mycotoxin fumonisin in food and feed
- Ciminiello P, Fattorusso E, Magno S, Oshima Y, Poletti R, Viviani R, Yasumoto T// Univ Naples, Dipt Chim, Sostanze Nat, Via D Montesano 49, I-80131 Naples, Italy  
*Mar Pollut Bull* 1995 30 (11) 733  
Determination of PSP toxins in mussels from the Adriatic Sea
- Kruger C, Sewing U, Stengel G, Kema I, Westermann J, Manz B// Repromed GmbH, Flughafenstr 52 A, D-22335 Hamburg, Germany  
*Arch Lebensmittelhyg* 1995 46 (5) 115  
Determination of histamine in fish using ELISA technique (German, English Abstract)
- Nouadje G, Nertz M, Verdegue P, Couderc F\*// \*CNRS, Lab Biol Molec Eucaryote, 118 Rte Narbonne, F-31062 Toulouse, France  
*J Chromatogr A* 1995 717 (1-2) 335  
Ball-lens laser-induced fluorescence detector as an easy-to-use highly sensitive detector for capillary electrophoresis: Application to the identification of biogenic amines in dairy products
- Roch OG, Blunden G, Haig DJ, Coker RD, Gay C// Univ Portsmouth, Sch Pharm & Biomed Sci, Pk Bldg, King Henry I St, Portsmouth PO1 2DZ, England  
*Brit J Biomed Sci* 1995 52 (4) 312  
Determination of aflatoxins in groundnut meal by high-performance liquid chromatography: A comparison of two methods of derivatisation of aflatoxin B<sub>1</sub>
- ## 10 ADDITIVES
- Chikamai BN, Osman ME, Menzies AR, Banks WB// Univ Coll Nth Wales, Sch Agr & Forest Sci, Bangor LL57 2AP, Gwynedd, Wales  
*Wood Sci Technol* 1995 30 (1) 49  
An evaluation of methods for characterising and monitoring gum arabic of commerce and related *Acacia* gums
- Kanegae Y, Miwa M, Nakatsuji I, Harada T// Takeda Chem Ind Co Ltd, Takasago Prod Technol, Dept Prod Technol, Div Vitamin & Food, 5-1 Aioi, Takasago, Hyogo 676, Japan  
*J Jpn Soc Food Sci Technol* 1995 42 (11) 913  
Determination of curdlan in foods by using a bacterial  $\beta$ -1, S-glucanase which hydrolyze resistant curdlan with formation of laminaribiose (Japanese, English Abstract)
- Matsumoto T, Fukaya M, Akita S, Kawamura Y, Ito Y// Nakano Vinegar Co Ltd, Nakano Res Inst, 2-6 Nakamura cho, Handa, Aichi 475, Japan  
*J Jpn Soc Food Sci Technol* 1995 42 (11) 926  
Improvement of alkaline hydrolysis treatment for the determination of residual sulfite in liquid foods by a microbial sensor method (Japanese, English Abstract)
- Mazur B, Haroon Y\*// \*Hoffmann La Roche Inc, Bldg 735, 340 Kingsland St, Nutley, NJ 07110, USA  
*J Agr Food Chem* 1995 43 (12) 3042  
Redox mode electrochemical detection approach with chemically modified electrodes for the measurement of frenolicin B (antibiotic) and related compounds in poultry feed
- Peiperl MD, Prival MJ\*, Bell SJ// \*US/FDA, Genet Toxicol Branch HFS236, 200 C St SW, Washington, DC 20204, USA  
*Food Chem Toxicol* 1995 33 (10) 829  
Determination of combined benzidine of FD&C Yellow No 6 (Sunset yellow FCF)
- Zghal H, Gueitin C, Haloui E, Czchok M// Ecole Super Sci & Tech Sante, BP 176, Tunis 1006, Tunisia  
*Sci Aliment* 1995 15 (5) 491  
Determination of Sunset Yellow FCF and Ponceau 4R in sweets by high performance liquid chromatography
- ## 11 FLAVOURS & AROMAS
- Fuh MRS, Pan WH, Hsieh IJ, Chuo CM// Soochow Univ, Dept Chem, Taipei 11102, Taiwan  
*Amer Lab* 1995 27 (18) 36  
Preparative-scale supercritical fluid extraction of essential oils from *Syzygium aromaticum* (clove bud)
- Gerbersmann C, Lobinski R, Adams FC\*// \*Univ Instelling Antwerp, Dept Chem, Univ Plein 1, B-2610 Antwerp, Belgium  
*Anal Chim Acta* 1995 316 (1) 93  
Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography microwave-induced plasma atomic emission spectrometry
- Hough G, Califano AN, Bertola NC, Bevilacqua AE, Martinez E, Vega MJ, Zaritzky NE// Inst Super Exptl Tecnol, Alimentaria, RA-6500 Nueve de Julio, DF, Argentina  
*Food Qual Preference* 1996 7 (1) 47  
Partial least squares correlations between sensory and instrumental measurements of flavor and texture for Reggianito grating cheese
- Lea P, Rodbotten M, Naes T// Norwegian Food Res Inst, Matforsk, Osloveien 1, N-1430 As, Norway  
*Food Qual Preference* 1995 6 (4) 321  
Measuring validity in sensory analysis
- Moodley VE, Mulholland DA, Raynor MW\*// \*Univ Natal, Dept Chem & Appl Chem, King George V Ave, Durban 4001, Rep Sth Africa  
*J Chromatogr A* 1995 718 (1) 187  
Micellar electrokinetic capillary chromatography of limonoid glucosides from *Citrus* seeds
- Morales MT, Alonso MV, Rios JJ, Aparicio R\*// \*CSIC, Inst Grasa, 4 Avda P Garcia Tejero, E-41012 Seville, Spain  
*J Agr Food Chem* 1995 43 (11) 2925  
Virgin olive oil aroma: Relationship between volatile compounds and sensory attributes by chemometrics
- Nishimura O// Ogawa & Co Ltd, 1-2 Taiheidai Shoocho, Katsuta, Ibaraki 70943, Japan  
*J Agr Food Chem* 1995 43 (11) 2941  
Identification of the characteristic odorants in fresh rhizomes of ginger (*Zingiber officinale* Roscoe) using aroma extract dilution analysis and modified multidimensional gas chromatography/mass spectroscopy
- Philipp O, Isengard HD\*// \*Univ Hohenheim, Inst Lebensmitteltechnol, Garbenstr 25, D-70599 Stuttgart, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 201 (6) 551

A new method for authenticity control of lemon oils by HPLC (German, English Abstract)

Sutherland MM, Ames JM\*// \*Univ Reading, Dept Food Sci & Technol, Whiteknights, Reading RG6 6AP, England  
*J Sci Food Agr* 1995 **69** (4) 403

The effect of castration on the headspace aroma components of cooked lamb

Ternes W, Gronemeyer M, Schwarz K// Vet Sch Hannover, Inst Chem, Bischofsholer Damm 15, D-30173 Hannover, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 544

Determination of *p*-cymene-2,3-diol, thymol, and carvacrol in different food-stuffs

Togari N, Kobayashi A, Aishima T// Gifu Women's Univ, 80 Taromaru, Gifu 50125, Japan  
*Food Res Int* 1995 **28** (5) 485

Relating sensory properties of tea aroma to gas chromatographic data by chemometric calibration methods

Togari N, Kobayashi A, Aishima T// Gifu Women's Univ, 80 Taromaru, Gifu 50125, Japan  
*Food Res Int* 1995 **28** (5) 495

Pattern recognition applied to gas chromatographic profiles of volatile components in three tea categories

Ulrich D, Eunert S, Hoberg E, Rapp A// Bundesanstalt Zuchtungsforsch Kulturpfl, Inst Qualitatsanalyt, Neuer Weg 22-23, D-06484 Quedlinburg, Germany  
*Deut Lebensmittel-Rundsch* 1995 **91** (11) 349

Analysis of strawberry aroma with solid phase microextraction (German, English Abstract)

Zonta F, Bagoni P, Masotti P, Micali G// Univ Trent, Ist Stat & Ric Operat, Via Verdi 26, I-38100 Trent, Italy  
*J Chromatogr A* 1995 **718** (1) 99

High-performance liquid chromatographic profiles of *Aloe* constituents and determination of aloin in beverages, with reference to the EEC regulation for flavouring substances

## 12 ORGANIC ACIDS

Becker T, Schmidt HL, Lechner E// Tech Univ Munich, Lehrstuhl Allgemeine Chem & Biochem, Vottingerstr 40, D-85350 Freising, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 537

D- and L-Lactate determination in dairy products: Presentation of a fast automated analysis system

Chen P, Nie LH, Yao SZ\*// \*Hunan Univ, New Mat Res Inst, Changsha 410082, Peoples Rep China  
*J Chromatogr B-Biomed Appl* 1995 **673** (2) 153

Determination of lactic acid and pyruvic acid in serum and cerebrospinal fluid by ion-exclusion chromatography with a bulk acoustic wave detector

Compagnone D, Mosca A\*, Palleschi G// \*Univ Coll Cork, Dept Chem, Cork, Rep Ireland  
*Anal Lett* 1995 **28** (14) 2475

Cyclic enzymatic determination of L-lactate by differential pH measurement

Ukeda H, Yamamoto N, Sawamura M, Kusunose H// Kochi Univ, Fac Agr, Dept Bioresource Sci, Monobe B-200, Nankoku, Kochi 783, Japan  
*Anal Sci* 1995 **11** (6) 941

Microbial sensor for estimating organic acids in wine

## 13 ANIMAL PRODUCTS

Buntjer JB, Lenstra JA, Haagsma N// Univ Utrecht, Dept Sci Food Anim Origin, Chem Sect, POB 80175, 3508 TD Utrecht, The Netherlands  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 577

Rapid species identification in meats by using satellite DNA probes

Irie M, Izumo A, Mohri S// Osaka Agr Res Ctr, Habikino Shi, Osaka 583, Japan  
*Meat Sci* 1996 **42** (1) 95

Rapid method for determining water-holding capacity in meat using video image analysis and simple formulae

Lagerwerf FM, Van Wassenaer PD, Haverkamp J// Unilever Res Labs, Vlaardingen, POB 114, 3130 AC Vlaardingen, The Netherlands  
*J Dairy Res* 1995 **62** (4) 673

Comparison of Cheddar cheeses produced with recombinant chymosin and with calf rennet using two dimensional high-performance liquid chromatography

Lin J, Puri VM\*, Anantheswaran RC// \*Penn State Univ, Dept Agr & Biol Engr, Rm 229, Agr Engr Bldg, University Pk, Pa 16802, USA  
*Trans ASAE* 1995 **38** (6) 1769

Measurement of eggshell thermal-mechanical properties

Nortvedt R, Tuene S// Directorate Fisheries, Inst Nutr, PB 185 Nordnes, N-5020 Bergen, Norway

*Chemometr Intell Lab Syst* 1995 **29** (2) 271

Multivariate evaluation of feed for Atlantic halibut

Ramanujam CGK, Kalpana TP// Post Grad Coll Sci, Dept Bot, Palaeobot Palynol Lab, Hyderabad 500004, Andhra Pradesh, India  
*Rev Palaeobot Palynol* 1995 **89** (3-4) 469

Microscopic analysis of honeys from a coastal district of Andhra Pradesh, India

Smith DM, Orta-Ramirez A// Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, Mi 48824, USA  
*J Clin Ligand Assay* 1995 **18** (3) 161

Enzyme-linked immunosorbent assay technology to verify endpoint cooking temperature of meat products

## 14 PLANT & MICROBIAL PRODUCTS

Baldi A, Rosen RT, Fukuda EK, Ho CT\*// \*Rutgers State Univ, Cook Coll, New Jersey Agr Expt Stn, Dept Food Sci, New Brunswick, NJ 08903, USA  
*J Chromatogr A* 1995 **718** (1) 89

Identification of nonvolatile components in lemon peel by high-performance liquid chromatography with confirmation by mass spectrometry and diode-array detection

Kanno A, Takamatsu H// Asahi Shokuhin Co Ltd, 180-2 Wado, Ushibori, Ibaraki 31124, Japan  
*J Jpn Soc Food Sci Technol* 1995 **42** (11) 878

Studies on "natto". V. Determination of  $\gamma$ -polyglutamic acid in "natto" using cetyltrimethylammonium bromide (Japanese, English Abstract)

Kobayashi H, Morisaki N, Tago Y, Hashimoto Y\*, Iwasaki S, Kawachi E, Nagata R, Shudo K// \*Univ Tokyo, Fac Pharmaceut Sci, Bunkyo ku, 7-3-1 Hongo, Tokyo 113, Japan  
*Experientia* 1995 **51** (11) 1081

Identification of a major cytokinin in coconut milk

Koizumi M, Ishida N, Kano H\*// \*Nat'l Inst Agrobiol Resources, Ibaraki 305, Japan  
*Biosci Biotechnol Biochem* 1995 **59** (12) 2321

Location of sucrose and oils in a maize seed by NMR microscopy

Meyer R// Univ Bern, Inst Biochem, Lebensmittelchem Abt, Freiestr 3, CH-3012 Bern, Switzerland  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 583

Detection of genetically engineered plants by polymerase chain reaction (PCR) using the Flavr Savr™ tomato as an example (German, English Abstract)

Ortiz MC, Herrero A, Sanchez MS, Sarabia LA, Iniguez M// Univ Burgos, Fac Sci & Food Technol & Chem, Dept Analyt Chem, Pza Misael Banuelos s/n, E-09001 Burgos, Spain  
*Analyst* 1995 **120** (12) 2793

Modelling the relation between CIELAB parameters and sensory scores for quality control of red-wine colour

Porter MG, Steen RWJ, Kilpatrick DJ, Gordon FJ, Mayne CS, Poots RE, Unsworth EF, Pippard CJ// Agr Res Inst Nthn Ireland, Large Pk, Hillsborough BT26 6DR, Northern Ireland  
*Anim Feed Sci Tech* 1995 **56** (3-4) 217

Electrometric titration as a method of predicting the chemical composition and corrected dry matter concentration of silage

Robutti JL// INTA, EEA Pergamino, CC 31, RA-2700 Pergamino, Argentina  
*Cereal Chem* 1995 **72** (6) 632

Maize kernel hardness estimation in breeding by near-infrared transmission analysis

Shao WF, Powell C, Clifford MN\*// \*Univ Surrey, Sch Biol Sci, Food Safety Res Grp, Guildford GU2 5XH, Surrey, England  
*J Sci Food Agr* 1995 **69** (4) 535

The analysis by HPLC of green, black and Pu'er teas in Yunnan

Ternes W, Schwarz K// Vet Sch Hannover, Inst Chem, Bischofsholer Damm 15, D-30173 Hannover, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (6) 548

Antioxidative constituents of *Rosmarinus officinalis* and *Salvia officinalis*. IV. Determination of carnosic acid in different foodstuffs

Wood CD, Plumb VE// Nat Resources Inst, Chatham Maritime, Cent Ave, Chatham ME4 4TB, Kent, England  
*Anim Feed Sci Tech* 1995 **56** (3-4) 195

Evaluation of assays for phenolic compounds on the basis of *in vitro* gas production by rumen micro-organisms

Zion B, Chen PT, McCarthy MJ// Agr Res Org, Volcani Ctr, Inst Agr Engr, POB 6, IL-50250 Bet Dagan, Israel  
*Comput Electron Agric* 1995 **13** (4) 289

Detection of bruises in magnetic resonance images of apples