

Bibliography of analytical food chemistry

(Five weeks journals - Search completed at 9th June 1994)

1 BOOKS, REVIEWS & SYMPOSIA

J AOAC Int 1994 77 (2) 491

Special section: The 1992 Harvey W. Wiley Award symposium: Fumonisins (11 Papers)

2 GENERAL

Acquistucci R// Ist Nazl Nutr, via Ardeatina 546, I-00178 Rome, Italy

Ind Aliment 1993 32 (321) 1186

Chemical aspects and technological use of colour measurements (Italian, English Abstract)

Blanch GP, Ibanez E, Herraiz M, Reglero G*// *CSIC, Inst Fermentac Ind, Juan Ciera 3, E-28006 Madrid, Spain

Anal Chem 1994 66 (6) 888

Use of a programmed temperature vaporizer for off-line SFE/GC analysis in food composition studies

Sherma J// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA

J AOAC Int 1994 77 (2) 297

Modern high-performance thin-layer chromatography

Vreuls JJ, De Jong GJ, Ghijssen RT, Brinkman UAT// Free Univ Amsterdam, Dept Analyt Chem, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands

J AOAC Int 1994 77 (2) 306

Liquid chromatography coupled on-line with gas chromatography: State of the art

3 AMINO ACIDS, PROTEINS & ENZYMES

Boudjellab N, Rolet-Repecaud O, Collin JC// INRA, Rech Technol & Anal Laitieres Stn, BP 89, F-39801 Poligny, France

J Dairy Res 1994 61 (1) 101

Detection of residual chymosin in cheese by an enzyme-linked immunosorbent assay

Chung SY, Ullah AHJ, Saners TH// USDA ARS, Stn Reg Res Ctr, POB 19687, 1100 Robert E Lee Blvd, New Orleans, La 70179, USA

J Agr Food Chem 1994 42 (3) 623

Peptide mapping of peanut proteins - Identification of peptides as potential indicators of peanut maturity

Foucat L, Renerre M, Gatellier P, Anton M// INRA, Rech Viande Stn, F-63122 Ceyrat, France

Int J Food Sci Technol 1994 29 (1) 1

¹H-NMR study of bovine myoglobin autoxidation: Influence of muscle type and time post-mortem

Idouraine A, Yensen SB, Weber CW// Univ Arizona, Dept Nutr & Food Sci, Tucson, Az 85721, USA

Food Chem 1994 50 (1) 13

Fractionation and partial characterization of tepary bean (*Phaseolus acutifolius*) proteins

Ishizaki S, Lin WL, Tanaka M, Taguchi T, Amano K// Tokyo Univ Fisheries, Fac Fisheries, Dept Food Sci & Technol, Minato ku, 4-5-7 Konan, Tokyo 108, Japan

J Food Sci 1994 59 (1) 97

Fish myosin fragments solubility and ANS-fluorescence intensity affected by *n*-butanol

Janssen FW, De Baaij JA, Hagele GH// Inspectorate Hlth Protect, Food Inspect Serv, PB 7200, 7200 GB Zutphen, The Netherlands

Fleischwirtschaft 1994 74 (2) 176

Heat-treated meat products: Detection of modified gluten by SDS-electrophoresis, Western-blotting and immunochemical staining

Marcone MF, Bondi MC, Yada RY// Univ Guelph, Dept Food Sci, Guelph N1G 2W1, Ontario, Canada

Biosci Biotechnol Biochem 1994 58 (2) 413

Isolation of soybean 11s globulin by isoelectric precipitation and sephacryl S-

300 gel filtration chromatography: A new purification technique

Nieto-Taladriz MT, Branlard G, Dardevet M// INRA, Ameliorat Plantes Stn, F-63039 Clermont Ferrand, France

Theor Appl Genet 1994 87 (8) 1001

Polymorphism of omega-gliadins in durum wheat as revealed by the two-step APAGE SDS-PAGE technique

Pazos C, Franco-Fragua L, Batista-Viera F*// *Fac Quim Montevideo, Catedra Bioquim, Montevideo CC1157, Uruguay

Chromatographia 1994 38 (3-4) 232

Salt promoted adsorption chromatography of malted barley amylases

Plumb GW, Mills ENC*, Tatton MJ, Dursel CCM, Lambert N, Morgan MRA// *AFRC Inst Food Res, Dept Food Molec Biochem, Norwich Res Pk, Norwich NR4 7UA, England

J Agr Food Chem 1994 42 (3) 834

Effects of thermal and proteolytic processing of glycinin, the 11S globulin of soy (*Glycine max*) - A study utilizing mono- and polyclonal antibodies

Posch A, Van den Berg BM, Duranton C, Gorg A*// *Tech Univ Munich, Lehrstuhl Allgemeine Lebensmitteltechnol, D-85350 Freising, FRG

Electrophoresis 1994 15 (2) 297

Polymorphism of pepper (*Capsicum annuum* L.) seed proteins studied by two-dimensional electrophoresis with immobilized pH gradients: Methodical and genetic aspects

Puchades R, Maqueira A, Planta M, Ruiz D// Univ Politecn Valencia, Dept Chem, E-46071 Valencia, Spain

Analysis 1994 22 (2) 76

Chemiluminescent and spectrophotometric determination of peroxidase and laccoperoxidase in foods using flow injection

Romagnoli D, Polan CE, Barbeau WE// Virginia Polytech Inst & State Univ, Coll Agr & Life Sci, Dept Dairy Sci, Blacksburg, Va 24061, USA

J Dairy Sci 1994 77 (4) 1093

Electrophoretic analysis of ruminal degradability of corn proteins

Rombaldi C, Lelievre JM, Latche A, Petitprez M, Bouzayen M, Pech JC*// *ENSAT, 145 Ave Muret, F-31076 Toulouse, France

Planta 1994 192 (4) 453

Immunocytolocalization of 1-aminocyclopropane-1-carboxylic acid oxidase in tomato and apple fruit

Simon-Sarkadi L, Holzapfel WH// Tech Univ Budapest, Dept Biochem & Food Technol, H-1502 Budapest, Hungary

Z Lebensmittel-Untersuch Fors 1994 198 (3) 230

Determination of biogenic amines in leafy vegetables by amino acid analyser

Watanabe T, Kitabatake N, Doi E*// *Kyoto Univ, Food Sci Res Inst, Uji, Kyoto 611, Japan

Biosci Biotechnol Biochem 1994 58 (2) 359

Method for the accurate measurement of freezing-induced denaturation of ovalbumin with 5,5'-dithiobis-(2-nitrobenzoic acid)

4 CARBOHYDRATES

Ben-Shalom N, Gross KC, Conway WS, Pinto R, Livsey JN// Agr Res Org, Volcani Ctr, Inst Technol & Storage Agr Prod, Dept Food Sci, IL-50250 Bet Dagan, Israel

Food Chem 1994 50 (1) 99

Effect of water content on sensitivity and stability of the *m*-phenylphenol uronic acid assay

Cornell DG, Dudley RL, Joubran RF, Parris N// USDA ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, Pa 19118, USA

Food Hydrocolloid 1994 8 (1) 19

NMR relaxation measurements of sucrose in aqueous ethanol solutions

Cui WW, Eskin NAM*, Biliaderis CG// *Univ Manitoba, Dept Foods & Nutr, Winnipeg R3T 2N2, Manitoba, Canada

J Agr Food Chem 1994 42 (3) 657

Fractionation, structural analysis, and rheological properties of water-soluble wild mustard (*Sinapis alba* L.) polysaccharides

Fredstrom SB, Jung HJG, Halgerson JL, Eyden CA, Slavin JL*// *Univ Minnesota, Dept Food Sci & Nutr, 1334 Eckles Ave, Minneapolis, Mn 55455, USA

J Agr Food Chem 1994 42 (3) 735

Trial of near-infrared reflectance spectroscopy in a human fiber digestibility

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical food chemistry. 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.

study

Neidhart S, Gessler A, Hannak C, Endress HU, Gierschner K*// *Univ Hohenheim, Inst Lebensmitteltechnol, Garbenstr 25, D-70599 Stuttgart, FRG
Z Lebensmittel-Untersuch Forsch 1994 **198** (4) 317

Application of analytical size exclusion chromatography to the investigation of substrate degradation by a commercial pectate lyase from *Erwinia carotovora* (German, English Abstract)

Pitifer LA, McLellan MR, Van Buren JP// Cornell Univ, New York State Agr Expt Stn, Dept Food Sci & Technol, Geneva, NY 14456, USA
Food Chem 1994 **50** (1) 29

Analysis of pectin content and degree of polymerization in orange juice

Rosett TR, Shirley L, Schmidt SJ, Klein BP// Univ Illinois, Div Foods & Nutr, 905 Stt Goodwin Ave, Urbana, IL 61801, USA
J Food Sci 1994 **59** (1) 206

Na^+ binding as measured by ^{23}Na nuclear magnetic resonance spectroscopy influences the perception of saltiness in gum solutions

Samotus B, Tuz J, Doerre E// Univ Agr Krakow, Dept Biochem, al 29 Listopada 54, PL-31425 Krakow, Poland
Acta Soc Bot Pol 1993 **62** (3-4) 137

Evaluation of blue value in different plant materials as a tool for rapid starch determination

Wu YV// USDA ARS, Natl Ctr Agr Utilizat Res, Biopolymer Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA
J Agr Food Chem 1994 **42** (3) 723

Determination of neutral sugars in corn distillers dried grains, corn distillers dried solubles, and corn distillers dried grains with solubles

Zhang Q, Abe T, Ando H, Sasahara T// Address not available.

Ann Bot 1994 **73** (3) 349

Classification of glutinous rice (*Oryza sativa* L.) starches based on X-ray diffraction pattern (*Ann Bot* 1993, **72** 551) (Correction)

5 LIPIDS

Ackman RG, Macpherson EJ// Tech Univ Nova Scotia, Canadian Inst Fisheries Technol, POB 1000, Halifax, Nova Scotia, Canada B3J 2X4
Food Chem 1994 **50** (1) 45

Coincidence of *cis*- and *trans*-monoethylenic fatty acids simplifies the open-tubular gas-liquid chromatography of butyl esters of butter fatty acids

Ali ARM, Dimick PS*// *Penn State Univ, Dept Food Sci, Borland Lab 16, Univ Pk, Pa 16802, USA
J Amer Oil Chem Soc 1994 **71** (3) 299

Thermal analysis of palm mid fraction, cocoa butter and milk fat blends by differential scanning calorimetry

Aparicio R, Alonso V// Inst Grasa, Avda P Garcia Tejero 4, E-41012 Seville, Spain
Prog Lipid Res 1994 **33** (1-2) 29

Characterization of virgin olive oils by SEXIA expert system

Ballesteros E, Cardenas S, Gallego M, Valcarcel M// Univ Cordoba, Fac Sci, Dept Analyt Chem, E-14004 Cordoba, Spain
Anal Chem 1994 **66** (5) 628

Determination of free fatty acids in dairy products by direct coupling of a continuous preconcentration ion-exchange-derivatization module to a gas chromatograph

Brechaney EY, Christie WW// Hannah Res Inst, Ayr KA6 5HL, Scotland
J Dairy Res 1994 **61** (1) 111

Identification of the unsaturated oxo fatty acids in cheese

Chapman DM, Pfannkoch EA, Kupper RJ// WR Grace & Co Conn, Washington Res Ctr, 7379 RT 32, Columbia, Md 21044, USA
J Amer Oil Chem Soc 1994 **71** (4) 401

Separation and characterization of pigments from bleached and deodorized canola oil

Chen YC, Chiu CP, Chen BH*// *Fu Jen Univ, Dept Nutr & Food Sci, Taipei, Taiwan 242
Food Chem 1994 **50** (1) 53

Determination of cholesterol oxides in heated lard by liquid chromatography

Christie WW// Scottish Crop Res Inst, Invergowrie, Dundee DD2 5DA, Scotland
Prog Lipid Res 1994 **33** (1-2) 9

Silver ion and chiral chromatography in the analysis of triacylglycerols

Elsark NS, Rizk LF, Doss HR// Natl Res Ctr, Dept Phys, Cairo, Egypt
Grasas Aceites 1993 **44** (4-5) 243

UV spectra parameters to investigate the influences of intensifications of soybean with sorghum and maize on the physical properties of soybean seed oils

Fan TWM, Clifford AJ, Higashi RM// Lawrence Livermore Natl Lab, Dept Land Air & Water Resources, Davis, Ca 95616, USA
J Lipid Res 1994 **35** (4) 678

In vivo ^{13}C NMR analysis of acyl chain composition and organization of perirenal triacylglycerides in rats fed vegetable and fish oils

Hahnel W, Weitemeyer C, Muller F// TH Goldschmidt AG, Goldschmidtstr 100, D-45127 Essen, FRG
Fett Wiss Technol 1994 **96** (2) 60

Investigations on the properties of emulsifiers in yeast leavened dough by means of infrared spectroscopy. 1. Experiments on the interaction of emulsifiers with gluten and amino acids (German, English Abstract)

Henderson JM, Petersheim M, Templeman GJ, Softly BJ// Nabisco Foods Grp, 200 Deforest Ave, East Hanover, NJ 07936, USA
J Agr Food Chem 1994 **42** (2) 435

Quantitation and structure elucidation of the positional isomers in a triacylglycerol mixture using proton and carbon one- and two-dimensional NMR

Huang AS, Robinson LR, Gursky LG, Profita R, Sabidong CG// Nabisco Foods Grp, 200 Deforest Ave, East Hanover, NJ 07936, USA
J Agr Food Chem 1994 **42** (2) 468

Identification and quantification of SALATRIM 23CA in foods by the combination of supercritical fluid extraction, particle beam LC mass spectrometry, and HPLC with light-scattering detector

Marquez-Ruiz G, Perez-Camino MC, Dobarganes MC*// *CSIC, Inst Grasa & Derivados, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain
J Chromatogr A 1994 **662** (2) 363

Evaluation of susceptibility to oxidation of linoleyl derivatives by thin-layer chromatography with flame ionization detection

Miyazawa T, Fujimoto K, Kinoshita M, Usuki R// Tohoku Univ, Dept Appl Biol Chem, Tsutsumidori, Amamiyamachi 1-1, Sendai 981, Japan
J Amer Oil Chem Soc 1994 **71** (3) 343

Rapid estimation of peroxide content of soybean oil by measuring thermoluminescence

Sacchi R, Medina I, Paolillo L, Addeo F// Univ Naples, Ist Ind Agrarie, Parco Gussoni, I-80055 Portici, Italy
Chem Phys Lipids 1994 **69** (1) 65

High-resolution ^{13}C -NMR olefinic spectra of DHA and EPA acids, methyl esters and triacylglycerols

Safar M, Bertrand D, Robert P*, Devaux MF, Genot C// *INRA, Technol Appl Nutr Lab, F-44072 Nantes 03, France
J Amer Oil Chem Soc 1994 **71** (4) 371

Characterization of edible oils, butters and margarines by Fourier transform infrared spectroscopy with attenuated total reflectance

Sato T// Minist Agr Forestry & Fisheries, Kyushu Natl Agr Expt Stn, Dept Crop Breeding, Nishigoshi, Kumamoto, Japan
J Amer Oil Chem Soc 1994 **71** (3) 293

Application of principal-component analysis on near infrared spectroscopic data of vegetable oils for their classification

Shantha NC, Decker EA// Univ Kentucky, Dept Anim Sci, Food Sci Sect, 412 WP Garrigus Bldg, Lexington, Ky 40546, USA
J AOAC Int 1994 **77** (2) 421

Rapid, sensitive, iron-based spectrophotometric methods for determination of peroxide values of food lipids

Shen YF, Huang HX, Liu XL, Wang QH, Zhou LM// Brigham Young Univ, Dept Chem, Provo, Ut 84602, USA
J High Res Chromatogr 1994 **17** (2) 74

Applications of capillary supercritical fluid chromatography to the characterization of edible oils and traditional Chinese medicines

Smith EB, Barbano DM, Lynch JM, Fleming JR// Cornell Univ, NE Dairy Foods Res Ctr, Ithaca, NY 14853, USA
J AOAC Int 1994 **77** (2) 430

Effect of infrared analyzer homogenization efficiency on linearity of uncorrected fat A and B signals

Staby A, Borch-Jensen C, Balchen S, Mollerup J*// *Tech Univ Denmark, Dept Chem Engn, Bldg 229, DK-2800 Lyngby, Denmark
J Amer Oil Chem Soc 1994 **71** (4) 355

Supercritical fluid chromatographic analysis of fish oils

Takagi T, Ando Y// Hokkaido Univ, Fac Fisheries, Dept Chem, Minato cho, Hakodate, Hokkaido 041, Japan
J Amer Oil Chem Soc 1994 **71** (4) 459

Separation of monoacylglycerols by high-performance liquid chromatography on nitrile-bonded phase

Van de Voort FR, Ismail AA, Sedman J, Emo G// McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, Box 187, St Anne Bellevue, Prov Quebec, Canada H9X 3V9

J Amer Oil Chem Soc 1994 **71** (3) 243

Monitoring the oxidation of edible oils by Fourier transform infrared spectroscopy

Ye MY, Hill KD, Walkup RG// Mantech Environm Technol Inc, POB 1198, Ada, Ok 74820, USA
J Chromatogr A 1994 **662** (2) 323

Separation of T-MAZ ethoxylated sorbitan fatty acid esters by supercritical fluid chromatography

Yoon JR, Hartel RW*, Wang YC// *Univ Wisconsin, Dept Food Sci, 1605 Linden Dr, Madison, Wi 53706, USA
J Food Process Preserv 1993 **17** (6) 471

Analysis of butterfat extraction and fractionation using supercritical carbon dioxide

Zamora R, Navarro JL, Hidalgo FJ*// *CSIC, Inst Grasa & Derivados, Avda Padre Garcia Tejero, E-41012 Seville, Spain
J Amer Oil Chem Soc 1994 **71** (4) 361

Identification and classification of olive oils by high resolution ^{13}C nuclear magnetic resonance

6 VITAMINS & CO-FACTORS

- Booth SL, Davidson KW, Sadowski JA// *Tufts Univ, US Dept Agr Human Nutr Res Ctr Aging, Vitamin K Res Lab, 711 Washington St, Boston, MA 02111, USA
J Agr Food Chem 1994 42 (2) 295
- Evaluation of an HPLC method for the determination of phylloquinone (vitamin K₁) in various food matrices
- Farrington AM, Jagota N, Slater JM// *Univ London, Birkbeck Coll, Ctr Analyt Sci, Gordon House, 29 Gordon Sq, London WC1H 0PP, England
Analyst 1994 119 (2) 233
- Simple solid wire microdisc electrodes for the determination of vitamin C in fruit juices
- Konings EJM// Food Inspect Serv Maastricht, Inspectorate Hlth Protect, POB 2516, 6201 CA Maastricht, The Netherlands
Neth Milk Dairy J 1994 48 (1) 31
- Estimation of vitamin D in baby foods with liquid chromatography
- Ryu KS, Eitenmiller RR, Pesti GM// *Univ Georgia, Dept Poultry Sci, Athens, Ga 30602, USA
J Sci Food Agr 1994 64 (3) 389
- A comparison of enzyme preparations to liberate folic acid for the microbiological assay of feed ingredients
- Solve M, Eriksen H, Brogren CH// *Natl Food Agcy Denmark, Inst Food Chem & Nutr, DK-2860 Soborg, Denmark
Food Chem 1994 49 (4) 419
- Automated microbiological assay for quantitation of niacin performed in culture microplates read by digital image processing

7 TRACE ELEMENTS & MINERALS

- Ambe S// Inst Phys & Chem Res, Wako, Saitama 35101, Japan
J Agr Food Chem 1994 42 (2) 262
- Mossbauer study of iron in soybean hulls and cotyledons
- Anzano JM, Martinez-Garbayo MP, Belarra MA, Castillo JR// Univ Zaragoza, Dept Analyt Chem, E-50009 Zaragoza, Spain
J Anal Atom Spectrom 1994 9 (2) 125
- Direct determination of copper at trace levels in solid samples of animal feed using electrothermal atomic absorption spectrometry
- Barbera R, Esteve MJ, Farre R, Lopez JC// Univ Valencia, Fac Pharm, Nutr & Food Chem, Avda Vincente Andres Estelles s/n, E-46100 Burjassot, Spain
Food Chem 1994 49 (4) 427
- A DPCSV method for the determination of nickel in infant formulas
- Cervera ML, Lopez JC, Montoro R// Univ Valencia, Dept Quim Anal, Dr Moliner 50, E-46100 Burjassot, Spain
J Dairy Res 1994 61 (1) 83
- Arsenic content of Spanish cow's milk determined by dry ashing hydride generation atomic absorption spectrometry
- Day MP, Zhang BL, Martin GJ// *CNRS, Resonance Magnet Nucl & React Chim Lab, UA 472, 2 rue Houssiniere, F-44072 Nantes 03, France
Amer J Enol Viticolt 1994 45 (1) 79
- The use of trace element data to complement stable isotope methods in the characterization of grape musts
- Dolan SP, Capar SG, Jacobs RM, Plunkett RJ, Hawkins GS// US FDA, Elemental Res Branch, 200 C St SW, Washington, DC 20204, USA
J AOAC Int 1994 77 (2) 454
- Sensitivity of the quick color test for indicating lead release from ceramicware
- Horie H, Mukai T, Goto T, Nagata TI// Natl Res Inst Vegetables, Ornamental Plants & Tea, Kanaya, Shizuoka 428, Japan
J Jpn Soc Food Sci Technol 1994 41 (2) 120
- Analysis of chemical forms of aluminum in tea infusions by using ^{27}Al -NMR (Japanese, English Abstract)
- Jeng SL, Lee SJ, Lin SY// Taiwan Provincial Res Inst Anim Hlth, Biol Res Dept, Tamsui 251, Taiwan
J Dairy Sci 1994 77 (4) 945
- Determination of cadmium and lead in raw milk by graphite furnace atomic absorption spectrophotometer
- Larroque M, Cabanis JC, Vian L// Fac Pharm Montpellier, Chim Analyt Lab, Ave C Flahaut, F-34060 Montpellier, France
J AOAC Int 1994 77 (2) 463
- Determination of aluminium in wines by direct graphite furnace atomic absorption spectrometry
- Lu GH, Li XM, Deng YF// Cent China Normal Univ, Dept Chem, Wuhan 430070, Peoples Rep China
Food Chem 1994 50 (1) 91
- Polarographic determination of trace boron in foods
- Martin-Polvillo M, Albi T, Guinda A// CSIC, Inst Grasa & Derivados, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain

J Amer Oil Chem Soc 1994 71 (4) 347

Determination of trace elements in edible vegetable oils by atomic absorption spectrophotometry

Puigdeu M, Lamuela-Raventos RM, Buxaderas S*, Torre-Boronat C// *Univ Barcelona, Fac Pharm, Avda Joan XXII s/n, E-08028 Barcelona, Spain
Amer J Enol Viticolt 1994 45 (1) 25

Determination of copper and iron in must: Comparison of wet and dry ashing

Tsuji S, Shibata T, Uchibori N, Kobayashi T, Suzuki H, Uchibori-Hase S, Muroi J, Kaneda N, Ito Y// Natl Inst Hlth Sci, Osaka Branch, 1-1-43 Hoenzaka, Chuo ku, Osaka 540, Japan
J Food Hyg Soc Jpn 1994 35 (1) 56

Natural occurrence of orthophosphate ion in various raw and processed foods by ion chromatography (Japanese, English Abstract)

8 DRUG, BIOCIDES & PROCESSING RESIDUES

- Anderson KA, Isaacs B, Tracy M, Moller G// Univ Idaho, Dept Food Sci & Toxicol, Analyt Lab, Moscow, Id 83844, USA
J AOAC Int 1994 77 (2) 473
- Cold-vapor generation for inductively coupled argon plasma atomic emission spectrometric analysis. 3. Mercury
- Anklam E, Muller A// Commiss European Communities, Joint Res Ctr ISPRA, Inst Environm, I-21020 Ispra, Italy
Z Lebensmittel-Untersuch Fors 1994 198 (4) 329
- A simple method of sample preparation for analysis of biphenyl residues in citrus fruit peels by gas chromatography
- Bergner-Lang B, Mikisch E// Chem Inst Amt Umweltsch Landeshaups, Staf-fenbergstr 81, D-70184 Stuttgart, FRG
Deut-Lebensm-Rundsch 1994 90 (2) 39
- On the importance of the 4-epimers of oxytetracycline, tetracycline and chlorotetracycline residues in HPLC analyses on foodstuffs of animal origin (German, English Abstract)
- Caricchia AM, Chiavarini S, Creminisi C, Morabito R*, Scerbo R// *ENEA Casaccia, Div Environn Chem, via Anguillarese 301, I-00060 Rome, Italy
Anal Chim Acta 1994 286 (3) 329
- Influence of storage conditions on the determination of organotin in mussels
- Chan W, Gerhardt GC, Salisbury CDC// Agr Canada, Hlth Anim Lab, 116 Vet Rd, Saskatoon, Saskatchewan, Canada S7N 2R3
J AOAC Int 1994 77 (2) 331
- Determination of tylosin and tilmicosin residues in animal tissues by reversed-phase liquid chromatography
- Cooper JF, Tourte J, Gros P// Direct Gen Concurrence Consommé & Repress Fraude, Interreg Lab, 205 Ave Croix Verte, F-34196 Montpellier 5, France
Chromatographia 1994 38 (3-4) 147
- Determination of pentachlorophenol residues in wine and corks by solvent extraction methodology and specific gas chromatography detection
- Degroodt JM, De Bakker BW, Srebrnik S// Minist Publ Hlth & Environm, 14, J Wytsman St, B-1050 Brussels, Belgium
J Liq Chromatogr 1994 17 (6) 1419
- Determination of ivermectin residues in meat and liver by HPLC and fluorometric detection
- De Voogt P, Haglund P, Reutergardh LB, De Wit C, Waern F// Univ Amsterdam, Dept Environm & Toxicol Chem, Nieuwe Achtergracht 166, 1018 WV Amsterdam, The Netherlands
Anal Chem 1994 66 (5) 305A
- Fishing for quality in environmental analysis: Interlaboratory study on non- and mono-ortho chlorinated biphenyls
- Diez P, Calderon V, Berenguer JA, Uruburu F// Inst Salud Carlos III, Ctr Nacl Alimentac, Serv Microbiol, E-28220 Majadahonda, Spain
Food Microbiol 1994 11 (1) 1
- Preservation of cultures of vegetative cells for use in antibiotic residue assays
- Gerhardt GC, Salisbury CDC, MacNeil JD// Agr Canada, Hlth Anim Lab, 116 Vet Rd, Saskatoon, Saskatchewan, Canada S7N 2R3
J AOAC Int 1994 77 (2) 334
- Determination of streptomycin and dihydrostreptomycin in animal tissue by on-line sample enrichment liquid chromatography
- Gilbert J, Bush J, Desa AL, Valierop JBH, Goenaga X// MAFF Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England
Food Addit Contam 1994 11 (1) 71
- Establishment of a reference collection of substances and an analytical handbook of reference data to support enforcement of EC regulations on food contact materials
- Goodman BA, Deighton N, Glidewell SM// Scottish Crop Res Inst, Invergowrie, Dundee DD2 5DA, Scotland
Int J Food Sci Technol 1994 29 (1) 23
- Optimization of experimental parameters for the EPR detection of the cellulosic radical in irradiated foodstuffs
- Grob K, Biedermann M, Giuffre AM// Kantonales Lab, POB, CH-8030 Zurich, Switzerland
Z Lebensmittel-Untersuch Fors 1994 198 (4) 325

- Determination of organophosphorus insecticides in edible oils and fats by splitless injection of the oil into a gas chromatograph (injector-internal headspace analysis)
Hatanaka H, Yasui Y, Matsushita S// Hyogo Prefectural Inst Publ Hlth, 2-1-29 Arata cho, Hyogo ku, Kobe 652, Japan
J Food Hyg Soc Jpn 1994 35 (1) 51
- Direct determination method of phthalic acid esters in vodka by HPLC (Japanese, English Abstract)
Horie M, Saito K, Nose N, Nakazawa H// Saitama Prefectural Inst Publ Hlth, 639-1 Kamioikubo, Urawa, Saitama 338, Japan
J Chromatogr B-Bio Med Appl 1994 653 (1) 69
- Simultaneous determination of benofloxacin, danofloxacin, enrofloxacin and ofloxacin in chicken tissues by high-performance liquid chromatography
Kadota M, Imanaka M, Ogawa N, Kumashiro K, Mori T, Oka H, Ikai Y, Horie M, Suzuki S, Nakazawa H// Okayama Prefectural Inst Environm Sci & Publ Health, 739-1 Uchio, Okayama 70102, Japan
J Food Hyg Soc Jpn 1994 35 (1) 23
- Determination of residual avoparcin in chicken muscle by high-performance liquid chromatography (Japanese, English Abstract)
Kondo I, Maekawa Y, Kumagai M// Japan Food Res Labs, Tama Lab, 6-11-10 Nagayama, Tama, Tokyo 206, Japan
J Food Hyg Soc Jpn 1994 35 (1) 8
- Rapid and simultaneous analysis of benomyl and thiophanate methyl in fruits by high-performance liquid chromatography (Japanese, English Abstract)
Lynch MJ, Rice JR*, Ericson JF, Mosher FR, Millas WJ, Harran LP, Frame GM, Illyes EF, McGuirk PR, Jefson MR *et alii* *Pfizer Inc, Div Cent Res, Dept Drug, Metab, Groton, Ct 06340, USA
J Agr Food Chem 1994 42 (2) 289
- Residue depletion studied on danofloxacin in the chicken
Pannier F, Astruc A, Astruc M*// *Univ Pau & Pays Adour, Chim Analyt Lab, Ave Univ, F-64000 Pau, France
Anal Chim Acta 1994 287 (1-2) 17
- Extraction and determination of butyltin compounds in shellfish by hydride generation-gas chromatography-quartz furnace atomic absorption spectrometry
Parks OW// US Agr Res Serv, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, Pa 19118, USA
J AOAC Int 1994 77 (2) 486
- Stability of sulfaquinoxaline, sulfadimethoxine, and their *N*-4-acetyl derivatives in chicken tissues during frozen storage
Rupp HS, Munns RK, Long AR, Plakas SM// US FDA, Denver Fed Ctr, Anim Drugs Res Ctr, POB 25087, Denver, Co 80225, USA
J AOAC Int 1994 77 (2) 344
- Simultaneous determination of nitrofurazone, nitrofurantoin, and furazolidone in channel catfish (*Ictalurus punctatus*) muscle tissue by liquid chromatography
Schreiber GA, Hoffmann A, Helle N, Bogl KW// Fed Hlth Off, Inst Social Med & Epidemiol, Lab Grp Irradiat Foods & Pharmaceut Alternat Tech, D-12101 Berlin, FRG
Radia Phys Chem 1994 43 (6) 533
- Methods for routine control of irradiated food: Determination of the irradiation status of shellfish by thermoluminescence analysis
Shearan P, O'Keeffe M, Smyth MR// Natl Food Ctr, Teagasc, Dublin 15, Rep Ireland
Food Addit Contam 1994 11 (1) 7
- Comparison of matrix solid phase dispersion (MSPD) with a standard solvent extraction method for sulphamethazine in pork muscle using high-performance liquid and thin layer chromatography
Stout SJ, Da Cunha AR, Wu SS, Zulalian J, Afzal J// Amer Cyanamid Co, Div Agr Res, POB 400, Princeton, NJ 08543, USA
J Agr Food Chem 1994 42 (2) 388
- Moxidectin: Characterization of cattle, sheep, and rat *in vitro* and *in vivo* metabolites by liquid chromatography-tandem mass spectrometry
Tateo F, Cucurachi S, Ferrillo A// Univ Milan, Dipt Sci & Tecnol Alimentari & Microbiol, via Celoria 2, I-20133 Milan, Italy
Ind Aliment 1994 33 (322) 15
- GC/MS identification of 2,4-dimethylfuran in extra virgin olive oil (Italian, English Abstract)
Wells DE, Echarri I// SOAFD, Marine Lab, POB 101, Victoria Rd, Aberdeen AB9 8DB, Scotland
Anal Chim Acta 1994 286 (3) 431
- Determination of chlorobiphenyls, with the separation of non-, mono- and di-ortho chloro congeners in fish and sea mammals
Zierfels G, Petz M*// *Univ Gesamthsch Wuppertal, Fachbereich Chem Lebensmittelchem 9, Gaussstr 20, D-42097 Wuppertal, FRG
Z Lebensmittel-Untersuch Fors 1994 198 (4) 307
- Fluorimetric determination of residual erythromycin in animal-derived food after derivatization with FMOC and HPLC separation (German, English Abstract)
- 9 TOXINS**
- Bennett RW, McClure F// US FDA, Div Microbiol, 200 C St, Washington, DC 20204, USA
- JAOAC Int* 1994 77 (2) 357
- Visual screening with enzyme immunoassay for staphylococcal enterotoxins in foods: Collaborative study
Bergdoll MS// Univ Wisconsin, Food Res Inst, Madison, Wi 53706, USA
JAOAC Int 1994 77 (2) A31
- The AOAC official methods for detection of staphylococcal enterotoxins in foods (Letter)
Lauren DR, Smith WA, Wilkins AL// Hort & Food Res Inst New Zealand Ltd, Ruakura Res Ctr, Hamilton, New Zealand
J Agr Food Chem 1994 42 (3) 828
- Preparation, purification, and NMR spectra of some mono- and di-hemisuccinates of the trichothecene mycotoxin nivalenol
Nowacka J, Oleszek W*// *Inst Soil Sci & Plant Cultivat, Dept Biochem, PL-24100 Pulawy, Poland
J Agr Food Chem 1994 42 (3) 727
- Determination of alfalfa (*Medicago sativa*) saponins by high-performance liquid chromatography
Saisho K, Toyoda M, Takagi K, Stake M, Takahashi S, Yamamoto Y, Kasai K, Hashimoto S, Saito Y// Natl Inst Hlth Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan
J Food Hyg Soc Jpn 1994 35 (1) 46
- Identification of aconitine in raw honey that caused food poisoning (Japanese, English Abstract)
Sharman M, MacDonald S, Sharkey AJ, Gilbert J// MAFF Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England
Food Addit Contam 1994 11 (1) 17
- Sampling bulk consignments of dried figs for aflatoxin analysis
Van Egmond HP, Van den Top HJ, Paulsch WE, Goenaga X, Vieytes MR// Natl Inst Publ Hlth & Environm Protect, Residue Anal Lab, Box 1, 3720 BA Bilthoven, The Netherlands
Food Addit Contam 1994 11 (1) 39
- Paralytic shellfish poison reference materials - An intercomparison of methods for the determination of saxitoxin
Young JC, Games DE// Agr Canada, Plant Res Ctr, Ottawa, Ontario, Canada K1A 0C6
J Chromatogr A 1994 663 (2) 211
- Analysis of *Fusarium* mycotoxins by gas chromatography Fourier transform infrared spectroscopy

10 ADDITIVES

- Dinckaya E, Cagin M, Telefoncu A// Ege Univ, Fac Sci, Dept Biochem, 35100 Bornova-Izmir, Turkey
Food Chem 1994 50 (1) 95
- Enzymatic method for the spectrophotometric determination of aspartame
Nevado JJB, Flores JR, Llerena MT// Univ Castilla La Mancha, Dept Analyt Chem & Foods Technol, E-13071 Ciudad Real, Spain
Anal Lett 1994 27 (5) 1009
- Simultaneous determination of quinoline yellow and sunset yellow by derivative spectrophotometry and ratio spectra derivative
Sjoberg AMK, Alanko TA// VTT, Biotechnol & Food Res, Tietotie 2, Espoo, Finland
J AOAC Int 1994 77 (2) 425
- Spectrophotometric determination of nitrate in baby foods: Collaborative study
Takeda Y, Goda Y*, Noguchi H, Yamada T, Yoshihara K, Takeda M// *Natl Inst Hyg Sci, Div Food Addit, Setagaya ku, 1-18-1 Kamiyoga, Tokyo 158, Japan
Food Addit Contam 1994 11 (1) 97
- Spectroscopic characterization of SC-NTR - A subsidiary dye of allura red AC dye (FD&C red no. 40)

11 FLAVOURS & AROMAS

- Cadwallader KR, Xu Y// Louisiana State Univ, Louisiana Agr Expt Stn, Dept Food Sci, Baton Rouge, La 70803, USA
J Agr Food Chem 1994 42 (3) 782
- Analysis of volatile components in fresh grapefruit juice by purge and trap gas chromatography
Calvey EM, Roach JAG, Block E// US FDA, Ctr Food Safety & Appl Nutr, Washington, DC 20204, USA
J Chromatogr Sci 1994 32 (3) 93
- Supercritical fluid chromatography of garlic (*Allium sativum*) extracts with mass spectrometric identification of allicin
Herraiz T, Ough CS*// *Univ Calif Davis, Dept Viticulture & Enol, Davis, Ca 95616, USA
Amer J Enol Viticul 1994 45 (1) 92
- Separation and characterization of 1,2,3,4-tetrahydro- β -carboline-3-carboxylic acids by HPLC and GC-MS: Identification in wine samples
Khoshkho N, Hedin PA*, McCarty JC// *Mississippi State Univ, Dept Chem, Mississippi State, Ms 39762, USA
J Agr Food Chem 1994 42 (3) 804

- Terpenoid aldehydes in root-knot nematode susceptible and resistant cotton-seeds as determined by HPLC and aniline methods
- Kopke T, Dietrich A, Mosandl A*// *Johann Wolfgang Goethe-Univ, Biozentrum, Inst Lebensmittelchem, Marie Curie Str 9, D-60439 Frankfurt, FRG
Phytochem Analysis 1994 5 (2) 61
- Chiral compounds of essential oils. XIV. Simultaneous stereoanalysis of buchu leaf oil compounds
- Le Fur E, Etievant PX*, Meunier JM// *INRA, Rech Aromes Lab, 17 rue Sully, F-21034 Dijon, France
J Agr Food Chem 1994 42 (2) 320
- Interest of pulsed electrochemical detection for the analysis of flavor-active alcohols separated by liquid chromatography
- Lund ED// US ARS, Citrus & Subtrop Prod Lab, 600 Ave Sth NW, Winter Haven, FL 33881, USA
J AOAC Int 1994 77 (2) 416
- Determination of 2-methoxy-3-alkylpyrazines in carrot products by gas chromatography nitrogen-phosphorus detection
- Mahungu SM, Hansen SL, Artz WE*// *Univ Illinois, Dept Food Sci, 382 M Agr Eng Sci Bldg, 1304 West Penn Ave, Urbana, IL 61801, USA
J Amer Oil Chem Soc 1994 71 (4) 453
- Quantitation of volatile compounds in heated triolein by static headspace capillary gas chromatography infrared spectroscopy mass spectrometry
- Roberts DD, Mordehai AP, Acree TE*// *Cornell Univ, New York State Agr Exptl Stn, Dept Food Sci & Technol, Geneva, NY 14456, USA
J Agr Food Chem 1994 42 (2) 345
- Detection and partial characterization of eight β -damascenone precursors in apples (*Malus domestica* Borkh, cv Empire)
- Sanz C, Perez AG, Richardson DG// Oregon State Univ, Dept Hort, Corvallis, OR 97331, USA
J Food Sci 1994 59 (1) 139
- Simultaneous HPLC determination of 2,5-dimethyl-4-hydroxy-3 (2H)-furanone and related flavor compounds in strawberries
- Snyder JM, King JW// USDA ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA
J Amer Oil Chem Soc 1994 71 (3) 261
- Oilseed volatile analysis by supercritical fluid and thermal desorption methods
- Snyder JM, King JW// USDA ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA
J Sci Food Agr 1994 64 (3) 257
- Analysis of volatile compounds from supercritical extracted soybeans by headspace gas chromatography and thermal desorption of a polymer adsorbent
- Sybilska D, Aszemborska M, Kowalczyk J, Ochocka RJ, Ossicini L, Perez G// Polish Acad Sci, Inst Phys Chem, Kasprzaka 44-52, PL-01224 Warsaw, Poland
J Chromatogr A 1994 659 (2) 389
- Enantiomeric composition of terpenic hydrocarbons in essential oils from *Juniperus communis* L

12 ORGANIC ACIDS

- Abdullah MI, Young JC*, Games DE// *Agr Canada, Plant Res Ctr, Ottawa K1A 0C6, Ontario, Canada
J Agr Food Chem 1994 42 (3) 718
- Supercritical fluid extraction of carboxylic and fatty acids from *Agaricus* spp mushrooms
- Barianto H, Maier HG*// *Tech Univ Carolo Wilhelmina Braunschweig, Inst Lebensmittelchem, Schleinitzstr 20, D-38106 Braunschweig, FRG
Z Lebensmittel-Untersuch Fors 1994 198 (3) 215
- Acids in chicory roots and malt. I. Identification in roasted products and method of determination
- Elkins ER, Heuser JR// Natl Food Processors Assoc, 1401 New York Ave NW, Washington, DC 20005, USA
J AOAC Int 1994 77 (2) 411
- Detection of adulteration in apple juice by L-malic:total malic acid ratio. Collaborative study
- Muller V, Peterhansel M, Von Lengerken J// Waldstr 3, D-34225 Baunatal 2, FRG
Agricbiol Res 1993 46 (4) 340
- Rapid method for the semiquantitative determination of faulty fermentation acids in silages (German, English Abstract)

13 ANIMAL PRODUCTS

- Chikuni K, Tabata T, Kosugiyama M, Monma M, Saito M// Natl Food Res Inst, Tsukuba, Ibaraki 305, Japan
Meat Sci 1994 37 (3) 337
- Polymerase chain reaction assay for detection of sheep and goat meats
- Garrido D, Perez A, Sanchez-Ferrer A// Univ Murcia, Fac Vet, E-30071 Murcia, Spain
J Sci Food Agr 1994 64 (3) 327
- Meat pigment determination of phase partitioning in Triton X-114 and oxidation with sodium nitrite
- Gomez MEM, Hernandez EG, Gomez JYM, Marin JLM// Fac Farm Granada, Dept Nutr & Bromatol, E-18012 Granada, Spain
J Apicul Res 1993 32 (3-4) 121
- Physicochemical analysis of Spanish commercial eucalyptus honeys
- Kakalis LT, Kumosinski TF*, Farrell HM// *USDA ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, PA 19118, USA
J Dairy Sci 1994 77 (3) 667
- The potential of solid-state nuclear magnetic resonance in dairy research - An application to cheese
- Levieux D, Venien A// INRA, Rech Viande Stn, Unite Immunochim, F-63122 St Genes Champane, France
J Dairy Res 1994 61 (1) 91
- Rapid, sensitive two-site ELISA for detection of cow's milk in goat's or ewe's milk using monoclonal antibodies

14 PLANT & MICROBIAL PRODUCTS

- Barcelo AR, Calderon AA, Zapata JM, Munoz R// Univ Murcia, Dept Plant Biol Plant Physiol, E-30100 Murcia, Spain
Sci Hort-Amsterdam 1994 57 (3) 265
- The histochemical localization of anthocyanins in seeded and seedless grapes (*Vitis vinifera*)
- Buckee GK// Address not available.
J Inst Brew 1994 100 (2) 57
- Determination of total nitrogen in barley, malt and beer by Kjeldahl procedures and the Dumas combustion method: Collaborative trial
- De Carvalho VD, Chagas SJD, Chalfoun SM, Botrel N, Juste ESG// Empresa Pesquisa Agropecuaria Minas Gerais, Caixa Postal 176, BR-3720000 Lavras, MG, Brazil
Pesquisa Agr Brasil 1994 29 (3) 449
- Relationship between the physical-chemical and chemical composition of green coffee and the quality of coffee beverage. 1. Polyphenoloxidase and peroxidase activity, color index and titratable acidity
- Dobrocky P, Bennett PN, Notarianni LJ*// *Univ Bath, Sch Pharm & Pharmacol, Claverton Down, Bath BA2 7AY, England
J Chromatogr B-Bio Med Appl 1994 652 (1) 104
- Rapid method for the routine determination of caffeine and its metabolites by high-performance liquid chromatography
- Dombrink-Kurtzman MA// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, IL 61604, USA
J Cereal Sci 1994 19 (1) 57
- Examination of opaque mutants of maize by reversed-phase high-performance liquid chromatography and scanning electron microscopy
- Gallignani M, Garrigues S, De la Guardia M*// *Univ Valencia, Dept Analyt Chem, C/Dr Moliner 50, E-46100 Burjassot, Spain
Anal Chim Acta 1994 287 (3) 275
- Derivative Fourier transform infrared spectrometric determination of ethanol in alcoholic beverages
- Holbach B, Forstel H, Otteneder H*, Hutzen H// *Chem Untersuchungsamt Trier, Maximineracht 11A, D-54295 Trier, FRG
Z Lebensmittel-Untersuch Fors 1994 198 (3) 223
- The stable-isotope-ratio of ^{18}O and ^{16}O as a means to evaluate foreign wine (German, English Abstract)
- Krishnan PG, Park WJ, Kephart KD, Reeves DL, Yarrow GL// Sth Dakota State Univ, Dept Nutr & Food Sci, Brookings, SD 57007, USA
Cereal Food World 1994 39 (2) 105
- Measurement of protein and oil content of oat cultivars using near-infrared reflectance spectroscopy
- Lamuela-Raventos RM, Waterhouse AL*// *Univ Calif Davis, Dept Viticulture & Enol, Davis, CA 95616, USA
Amer J Enol Viticult 1994 45 (1) 1
- A direct HPLC separation of wine phenolics
- Pezet R, Pont V, Cuenat P// Swiss Fed Agr Res Stn Changins, Rte Duillier, CH-1260 Nyon, Switzerland
J Chromatogr A 1994 663 (2) 191
- Method to determine resveratrol and pterostilbene in grape berries and wines using high-performance liquid chromatography and highly sensitive fluorimetric detection
- Reeves JB// USDA ARS, Beltsville Agr Res Ctr, Inst Livestock & Poultry Sci, Ruminant Nutr Lab, Beltsville, MD 20705, USA
J Dairy Sci 1994 77 (4) 1030
- Use of near infrared reflectance spectroscopy as a tool for screening treated forages and by-products
- Sekiguchi N, Yata M, Murata M, Homma S// Ochanomizu Univ, Dept Nutr & Food Sci, Ohtsuka 2-1-1, Bunkyo ku, Tokyo 112, Japan
Nippon Nogeikagaku Kaishi 1994 68 (4) 821
- Identification of iron-binding compound in instant coffee (Japanese, English Abstract)
- Song HP, Litchfield JB// Univ Illinois, Dept Agr Engn, Urbana, IL 61801, USA
J Agr Eng Res 1994 57 (2) 109
- Measurement of stress cracking in maize kernels by magnetic resonance imaging