

Bibliography of analytical, nutritional and clinical methods

(Five weeks journals - Search completed at 6th October 1994)

1 BOOKS, REVIEWS & SYMPOSIA

McCarthy MJ, McCarthy KL// Univ Calif Davis, Dept Food Sci & Technol, Davis, Ca 95616, USA

J Sci Food Agr 1994 **65** (3) 257

Quantifying transport phenomena in food processing with nuclear magnetic resonance imaging (Review)

Pfeiffer C, Diehl JF*, Schwack W// *Bundesforsch Anstalt Ernährung, Inst Ernährungsphysiol, Engesserstr 20, D-76131 Karlsruhe, FRG

Z Ernährungswiss 1994 **33** (2) 85

Food folates: A topical review: Stability, physiological relevance, bioavailability, analytical methods of determination, effect of food processing (German, English Abstract)

Sumar S, Rahman R, Haque AKMM// Sth Bank Univ, Sch Appl Sci, Food Res Ctr, Borough Rd, London SE1 0AA, England

J Roy Soc Health 1994 **114** (4) 194

A review of methods for the identification of irradiated foods

Yaylayan VA, Huyghues-Despointes A// McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, 211,111 Lakeshore Rd, St Anne de Bellevue, Quebec, Canada H9X 3V9

Crit Rev Food Sci Nutr 1994 **34** (4) 321

Chemistry of Amadori rearrangement products: Analysis, synthesis, kinetics, reactions and spectroscopic properties (Review)

Yukawa M// Natl Inst Radiol Sci, 4-9-1 Anagawa, Inage ku, Chiba 263, Japan

Bunseki Kagaku 1994 **43** (8) 583

Application of PIXIE method for determination of trace elements in human tissues (Review) (Japanese, English Abstract)

2 GENERAL

Berthold HK, Wykes LJ, Jahoor F, Klein PD, Reeds PJ// *Baylor Coll Med, Dept Pediat, USDA ARS, Childrens Nutr Res Ctr, 1100 Bates St, Houston, TX 77030, USA

Proc Nutr Soc-Engl Scot 1994 **53** (2) 345

The use of uniformly labelled substrates and mass isotopomer analysis to study intermediary metabolism

Clark D, Tomas F, Withers RT, Chandler C, Brinkman M, Phillips J, Berry M, Ballard FJ, Nestel P// CSIRO, Div Human Nutr, Kintore Ave, Adelaide, SA 5000, Australia

Brit J Nutr 1994 **72** (1) 21

Energy metabolism in free-living, 'large-eating' and 'small eating' women: Studies using $^2\text{H}_2^{18}\text{O}$

Hashizume K// Natl Food Res Inst, Tsukuba, Japan

Nippon Suisan Gakkaishi 1994 **60** (2) 284

Nondestructive evaluation of food (Japanese, English Abstract)

Ritz P, Johnson PG, Coward WA*// *MRC, Dunn Nutr Unit, Downhams Lane, Milton Rd, Cambridge CB4 1XJ, England

Brit J Nutr 1994 **72** (1) 3

Measurements of ^2H and ^{18}O in body water: Analytical considerations and physiological implications

Russo C// Barilla Dolciaria Spa, Sviluppo Biscotti, via Mantova 166, I-43100 Parma, Italy

Ind Aliment 1994 **33** (326) 505

Water activity of foods: How credible is its measure today (Italian, English Abstract)

Wang LY// Xinjiang Inst Technol, Food Engn Grp, Urumqi 830008, Peoples

Rep China

Ann Chim 1994 **84** (1-2) 1

Applications of thermoanalytical technique in food analysis

Yeh RS, Anantheswaran RC*, Shenk J, Puri VM// *Penn State Univ, Dept Food Sci, University Pk, Pa 16802, USA

Food Sci Technol-Lebensm Wiss 1994 **27** (4) 358

Determination of moisture profile in foods during microwave heating using vis-NIR spectroscopy

3 AMINO ACIDS, PROTEINS & ENZYMES

Apenten RKO, Bertholon N// Univ Leeds, Procter Dept Food Sci, Leeds LS2 9JT, England

Food Chem 1994 **51** (1) 15

Determination of enzyme global thermostability from equilibrium and kinetic analysis of heat inactivation

Bouton Y, Grappin R// INRA, Rech Technol & Anal, Laitiere Stn, BP 89, F-39801 Poligny, France

J Dairy Res 1994 **61** (3) 437

Measurement of proteolysis in cheese: Relationship between phosphotungstic acid-soluble N fraction by Kjeldahl and 2,4,6-trinitrobenzenesulphonic acid-reactive groups in water-soluble N

Carretero C, Trujillo AJ, Mor Mur M, Pla R, Guamis B// Univ Autonoma Barcelona, Fac Vet, E-08193 Barcelona, Spain

J Agr Food Chem 1994 **42** (7) 1546

Electrophoretic study of casein breakdown during ripening of goat's milk cheese

Cifuentes A, De Frutos M, Diez-Masa JC// Univ Amsterdam, Analyt Chem Lab, Amsterdam, The Netherlands

Amer Lab 1994 **26** (12) 46

Polymeric networks versus cross-linked polyacrylamide bonded gels for CE separations of whey proteins

Denery-Papini S, Briand JP, Quillien L, Popineau Y, Van Regenmortel MHV// Inst Biol Molec & Cellulaire, CNRS, UPR 9021, 15 rue Descartes, F-67084 Strasbourg, France

J Cereal Sci 1994 **20** (1) 1

Immunological differentiation of various gliadins and low *Mr* subunits of glutenin using anti-peptide antisera

Harper SB, Hurst WJ, Lang CM// Penn State Univ, Milton S Hershey Med Ctr, Dept Comparat Med, Hershey, Pa 17033, USA

J Chromatogr B-Bio Med Appl 1994 **657** (2) 339

Use of capillary electrophoresis-isoelectric focusing for the determination of bovine hemoglobin variants

Jarosz L, Hvelplund T*, Weisbjerg MR, Jensen BB// *Natl Inst Anim Sci, Dept Res Cattle & Sheep, PO 39, DK-8830 Tjele, Denmark

Acta Agr Scand Sect A-Anim Sci 1994 **44** (3) 146

True digestibility of protein in the small intestine and the hind gut of cows measured with the mobile bag technique using ^{15}N -labelled roughage

Jideani IA, Owusu RK, Muller HG// Univ Leeds, Dept Food Sci, Leeds LS2 9JT, England

Food Chem 1994 **51** (1) 51

Proteins of acha (*Digitaria exilis* Stapf): Solubility fractionation, gel filtration, and electrophoresis of protein fractions

Kim HHY, Jimenez-Flores R*// *Univ Illinois, Dept Food Sci, Urbana, IL 61801, USA

J Dairy Sci 1994 **77** (8) 2177

Comparison of milk proteins using preparative isoelectric focusing followed by

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.

polyacrylamide gel electrophoresis

Konecny P, Brown RJ, Scouten WH// Utah State Univ, Ctr Biotechnol, Logan, Ut 84322, USA

J Chromatogr A 1994 673 (1) 45

Chromatographic purification of immunoglobulin G from bovine milk whey

Krischbaum J, Luckas B, Beinert WD// Univ Hohenheim, Inst Lebensmittelchem, Pfaffenwaldring 55, D-70569 Stuttgart, FRG

Deut Lebensm-Rundsch 1994 90 (7) 224

Application of automatic pre-column derivatization with 9-fluorenyl-methyl chloroformate for determination of biogenic amines and amino acids in food (German, English Abstract)

Kruger JE, Hatcher DW, De Pauw R// Canadian Grain Commiss, Grain Res Lab, 1404-303 Main St, Winnipeg, Manitoba, Canada R3C 3G9

Cereal Chem 1994 71 (4) 324

A whole seed assay for polyphenol oxidase in Canadian prairie spring wheats and its usefulness as a measure of noodle darkening

Minguez-Mosquera MI, Gandul-Rojas B, Gallardo-Guerrero L// CSIC, Inst Grasa & Derivados, Avenida Padre Garcia Tejero 4, E-41012 Seville, Spain

J Biochem Tokyo 1994 116 (2) 263

Measurement of chlorophyllase activity in olive fruit (*Olea europaea*)

Nakaya M// Univ Tokyo, Fac Agr, Marine Biochem Lab, Bunkyo ku, Tokyo 113, Japan

Nippon Suisan Gakkaishi 1994 60 (4) 547

Microsequence analysis of proteins after electrophoresis (Japanese)

Ogawa M// Sophia Univ, Fac Sci & Technol, Dept Chem, Tokyo 102, Japan

Nippon Suisan Gakkaishi 1994 60 (4) 549

Secondary structure of proteins determined by calorimetry and circular dichroism measurements (Japanese)

Ojima T// Hokkaido Univ, Fac Fisheries, Dept Chem, Hakodate, Hokkaido 041, Japan

Nippon Suisan Gakkaishi 1994 60 (4) 543

Analysis of primary structure of proteins by cDNA cloning (Japanese)

Picard C, Plard I, Rongdaux-Gaida D, Collin JC// INRA, Rech Technol & Anal, Laitiere Stn, BP 89, F-39801 Poligny, France

J Dairy Res 1994 61 (3) 395

Detection of proteolysis in raw milk stored at low temperature by an inhibition ELISA

Popineau Y, Bonenfant S, Cornec M, Pezolet M// INRA, Biochim & Technol Prot Lab, rue Geraudiere, BP 527, F-44026 Nantes 03, France

J Cereal Sci 1994 20 (1) 15

A study by infrared spectroscopy of the conformations of gluten proteins differing in their gliadin and glutenin compositions

Preston T, Slater C// Scottish Univ Res & Reactor Ctr, East Kilbride G75 0QU, Scotland

Proc Nutr Soc-Engl Scot 1994 53 (2) 363

Mass spectrometric analysis of stable-isotope-labelled amino acid tracers

Rodriguez-Ariza A, Toribio F*, Lopez-Barea J// *Univ Cordoba, Fac Vet, Inst Biol Basica & Aplicada, Dept Bioquim & Biol Molec, Avda Medina Azahara, E-14071 Cordoba, Spain

J Chromatogr B-Bio Med Appl 1994 656 (2) 311

Rapid determination of glutathione status in fish liver using high-performance liquid chromatography and electrochemical detection

Rohm H, Benedikt J, Jaros D// Agr Univ Vienna, Inst Milchwirtschaft & Bakteriologie, Gregor Mendel Str 33, A-1180 Vienna, Austria

Food Sci Technol-Lebensm Wiss 1994 27 (4) 392

Comparison of 2 precipitation methods for determination of phosphotungstic acid soluble nitrogen in cheese

Van Straalen WM, Salaun C, Veen WAG, Rijpkema YS, Hof G, Boxem TJ// CLO, Inst Anim Nutr, DL Schothorst, POB 533, 8200 AM Lelystad, The Netherlands

Neth J Agr Sci 1994 42 (2) 89

Validation of protein evaluation systems by means of milk production experiments with dairy cows

Vonguyen L, Wu JQ, Pawliszyn J// *Univ Waterloo, Dept Chem, Waterloo, Ontario, Canada N2L 3G1

J Chromatogr B-Bio Med Appl 1994 657 (2) 333

Peptide mapping of bovine and chicken cytochrome c by capillary isoelectric focusing with universal concentration gradient imaging

Waterlow JC, Jackson AA, Golden MHN, Jahoor F, Sutton G, Fern EB// Univ London London Sch Hyg & Trop Med, Dept Publ Hlth & Policy, Keppel St, London WC1E 7HT, England

Brit J Nutr 1994 72 (1) 83

The effect of acidosis on the labelling of urinary ammonia during infusion of [¹⁵N-amide] glutamine in human subjects

4 CARBOHYDRATES

Englyst HN, Quigley ME, Hudson GJ// MRC, Dunn Clin Nutr Ctr, Addenbrookes Hosp Site, Hills Rd, Cambridge, England

Analyst 1994 119 (7) 1497

Determination of dietary fibre as non-starch polysaccharides with gas-liquid chromatographic, high-performance liquid chromatographic or spectrophotometric measurement of constituent sugars

Huyghues-Despointes A, Yaylayan VA// *McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, 211,111 Lakeshore, Ste Anne de Bellevue, Quebec, Canada H9X 3V9

Food Chem 1994 51 (1) 109

A multidetector HPLC system for the analysis of Amadori and other Maillard reaction intermediates

Ikuta K, Ohtani Y, Isobe Y, Harada H// Honen Corp, Food Res & Dev Labs, 2 Shinminato cho, Shimizu, Shizuoka 424, Japan

J Jpn Soc Food Sci Technol 1994 41 (7) 515

Quantitative determination of oligosaccharides in commercial soybean lecithin products by high-performance liquid chromatography

Katsu T, Zhang XN, Rechnitz GA// *Univ Hawaii, Dept Chem, Hawaii Biosensor Lab, Honolulu, Hi 96822, USA

Talanta 1994 41 (6) 843

Simultaneous determination of lactose and glucose in milk using 2 working enzyme electrodes

McCleary BV, Solah V, Gibson TS// Megazyme Australia Pty Ltd, 2-11 Ponderosa Parade, Warriewood, NSW 2102, Australia

J Cereal Sci 1994 20 (1) 51

Quantitative measurement of total starch in cereal flours and products

McLinn CA, Collier JE, Constant MD// Miller Brewing Co, 3939 West Highland Blvd, Milwaukee, WI 53208, USA

J Amer Soc Brew Chemist 1994 52 (2) 65

Evaluation of cation exchange HPLC columns for the separation of carbohydrates in wort and beer

Morris PG, McIntyre DJO, Coxon R, Bachelard HS, Moriarty KT, Greenhaff PL, MacDonald IA// Univ Nottingham, Dept Phys, Ctr Magnet Resonance, Nottingham NG7 2RD, England

Proc Nutr Soc-Engl Scot 1994 53 (2) 335

Nuclear magnetic resonance spectroscopy as a tool to study carbohydrate metabolism

Newman RH, Ha MA, Melton LD// Ind Res Ltd, POB 31310, Lower Hutt, New Zealand

J Agr Food Chem 1994 42 (7) 1402

Solid-state ¹³C NMR investigation of molecular ordering in the cellulose of apple cell walls

Pezzi G, Vallini G// Eridania ZN, Cas Postale 1836, I-16100 Genoa, Italy

Zuckerindustrie 1994 119 (6) 482

Automatic acquisition of data from laboratory instruments (German, English Abstract)

Quigley ME, Englyst HN// MRC, Dunn Clin Nutr Ctr, Addenbrookes Hosp Site, Hills Rd, Cambridge, England

Analyst 1994 119 (7) 1511

Determination of the uronic acid constituents of non-starch polysaccharides by high-performance liquid chromatography with pulsed amperometric detection

Romani A, Baldi A, Tattini M*, Vincieri FF// *CNR, Ist Propagaz Specie Legnose, via Ponte Formicola 74, I-50018 Scandicci, Italy

Chromatographia 1994 39 (1-2) 35

Extraction, purification procedures and HPLC-RI analysis of carbohydrates in olive (*Olea europea* L) plants

Stoppok E, Buchholz K// Tech Univ Carolo Wilhelmina Braunschweig, Zuckerinst, Inst Technol Kohlenhydrate, Langer Kamp 5, D-38106 Braunschweig, FRG

Zuckerindustrie 1994 119 (6) 476

Use of dextranase and determination of its activity for the processing of dextrinated sugar beet (German, English Abstract)

5 LIPIDS

Aparicio R, Ferreira L, Alonso V// CSIC, Inst Grasa & Derivados, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain

Anal Chim Acta 1994 292 (3) 235

Effect of climate on the chemical composition of virgin olive oil

Beylot M// Fac Med Alexis Carrel, INSERM, U197, rue G Paradin, F-69372 Lyon 08, France

Proc Nutr Soc-Engl Scot 1994 53 (2) 355

- The use of stable isotopes and mass spectrometry in studying lipid metabolism
Coni E, Di Pasquali M, Coppolelli P, Bocca A// Ist Super Sanita, Viale Regina Elena 299, I-00161 Rome, Italy
J Amer Oil Chem Soc 1994 71 (8) 807
- Detection of animal fats in butter by differential scanning calorimetry: A pilot study
Firestone D// US FDA, Div Pesticides & Ind Chem, HFS-336, 200 C St SW, Washington, DC 20204, USA
J AOAC Int 1994 77 (4) 954
- Liquid chromatographic method for determination of triglycerides in vegetable oils in terms of their partition numbers: Summary of collaborative study
Firestone D// Address as above.
J AOAC Int 1994 77 (4) 957
- Gel-permeation liquid chromatographic method for determination of polymerized triglycerides in oils and fats: Summary of collaborative study
Garrido JL, Medina I// CSIC, Inst Invest Marinas, Avda Eduardo Cabello 6, E-36208 Vigo, Spain
J Chromatogr A 1994 673 (1) 101
- One-step conversion of fatty acids into their 2-alkenyl-4,4-dimethylxazoline derivatives directly from total lipids
Guardiola F, Codony R*, Rafecas M, Boatella J// *Univ Barcelona, Fac Pharm, Nutr & Food Sci Unit, Avda Joan XXIII s/n, E-08028 Barcelona, Spain
J Amer Oil Chem Soc 1994 71 (8) 867
- Selective gas chromatographic determination of cholesterol in eggs
House SD, Larson PA, Johnson RR, Devries JW, Martin DL// Gen Mills Inc, James Ford Bell Tech Ctr, 9000 Plymouth Ave Nth, Minneapolis, Mn 55427, USA
J AOAC Int 1994 77 (4) 960
- Gas chromatographic determination of total fat extracted from food samples using hydrolysis in the presence of antioxidant
Kaplan M, Davidson G*, Poliakoff M// *Univ Nottingham, Dept Chem, Univ Pk, Nottingham NG7 2RD, England
J Chromatogr A 1994 673 (2) 231
- Capillary supercritical fluid chromatography-Fourier transform infrared spectroscopy study of triglycerides and the qualitative analysis of normal and "unsaturated" cheeses
Liebich HM, Schmieder N, Wahl HG, Woll J// Univ Tubingen, Med Klin, D-72076 Tubingen, FRG
J High Res Chromatogr 1994 17 (7) 519
- Separation and identification of unsaturated fatty acid isomers in blood serum and therapeutic oil preparations in the form of their oxazoline derivatives by GC-MS
Lynch JM, Barbano DM, Healy PA, Fleming JR// Cornell Univ, NE Dairy Res Ctr, Dept Food Sci, Ithaca, NY 14853, USA
J AOAC Int 1994 77 (4) 976
- Performance evaluation of the Babcock and ether extraction methods: 1989 through 1992
Mendis S, Sobotka PA, Euler DE// *Loyola Univ, Med Ctr, Dept Med Cardiol, Cardiol Sect, Rm 0730, 2160 Sth 1st Ave, Maywood, Il 60153, USA
Clin Chem 1994 40 (8) 1485
- Pentane and isoprene in expired air from humans: Gas-chromatographic analysis of single breath
Miyasaki T, Sato M, Yoshinaka R, Sakaguchi M// Shimonoseki Univ Fisheries, Dept Food Sci & Technol, Shimonoseki, Yamaguchi 75965, Japan
Fisheries Science 1994 60 (2) 225
- Determination of free and esterified carnitine in tissues of rainbow trout by high-performance liquid chromatography
Neff WE, Adlof RO, El Agaimy M// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, Il 61604, USA
J Amer Oil Chem Soc 1994 71 (8) 852
- Silver ion high-performance liquid chromatography of the triacylglycerols of *Crepis alpina* seed oil
Pettersson L, Eriksson CG// Malarsjukhuset, Dept Clin Chem, S-63188 Eskilstuna, Sweden
J Chromatogr B-Bio Med Appl 1994 657 (1) 31
- Reversed-phase high-performance liquid chromatographic determination of 7 α -hydroxy-4-cholesten-3-one in human serum
Puppione DL, Charugundla S// Univ Calif Los Angeles, Dept Chem & Biochem, 405 Hilgard Ave, Los Angeles, Ca 90024, USA
Lipids 1994 29 (8) 595
- A microprecipitation technique suitable for measuring α -lipoprotein cholesterol
Rafii ZS, Al-Nasser AA, Budair A, Tufail M// King Faisal Specialist Hosp & Res Ctr, POB 3354, Riyadh 11211, Saudi Arabia
Ann Clin Biochem 1994 31 (4) 347
- Establishing reference total serum cholesterol values for Saudi children
Siebenmorgen TJ, Sun H// Univ Arkansas, Fayetteville, Ar 72701, USA
Cereal Chem 1994 71 (4) 327
- Relationship between milled rice surface fat concentration and degree of milling as measured with a commercial milling meter
Steele W, Banks W// Hannah Res Inst, Ayr KA6 5HL, Scotland
Milchwissenschaft 1994 49 (7) 372
- Triglyceride distribution in hydrogenated milk fat and its effects on separation by thin layer chromatography
Subrahmanyam MSR, Vedanayagam HS, Venkatacharyulu P// *Nagarjuna Univ, Dept Phys, Nagarjuna Nagar 522510, Andhra Pradesh, India
J Amer Oil Chem Soc 1994 71 (8) 901
- Estimation of the Sharma constant and thermoacoustic properties of vegetable oils
Takayama M, Sumida M// Tottori Univ, Coll Med Care Technol, Dept Med Technol, 133-2 Nishimachi, Yonago, Tottori 683, Japan
Med Sci Res 1994 22 (7) 519
- The influence of long-time storage on total fatty acids and fatty acid composition in serum lipids investigated by high-performance liquid chromatography
Tsuda T, Murata H, Sakai T// Miyazaki Univ, Fac Agr, Miyazaki, Miyazaki 88921, Japan
Nippon Suisan Gakkaishi 1994 60 (1) 131
- Bilirubin levels in fish plasma must not be analyzed by diazo method (Japanese, English Abstract)
Ukeda H, Fujita Y, Sawamura M, Kusunose H// Kochi Univ, Fac Agr, Dept Bioresources Sci, Nankoku, Kochi 783, Japan
Anal Sci 1994 10 (4) 683
- Determination of short-chain fatty acids in raw milk using a microbial sensor and the relationship with milk quality
Walker DFG, Bartle KD, Clifford AA// Univ Leeds, Sch Chem, Leeds LS2 9JT, England
Analyst 1994 119 (7) 1471
- Determination of the oil content of rapeseed by supercritical fluid extraction
Wolff RL// Univ Bordeaux 1, ISTAB, Lipochim Alimentaire Lab, Allee Fac, F-33405 Talence, France
J Amer Oil Chem Soc 1994 71 (8) 907
- Analysis of α -linolenic acid geometrical isomers in deodorized oils by capillary gas-liquid chromatography on cyanoalkyl polysiloxane stationary phases: A role of caution
Zupan J, Novic M, Li XZ, Gasteiger J// Natl Inst Chem, Ljubljana 61115, Slovenia
Anal Chim Acta 1994 292 (3) 219
- Classification of multicomponent analytical data of olive oils using different neural networks

6 VITAMINS & CO-FACTORS

- Adams WR, Green MH// *Penn State Univ, Dept Nutr, University Pk, Pa 16802, USA
J Nutr 1994 124 (8) 1265
- Prediction of liver vitamin A in rats by an oral isotope dilution technique
Chase GW, Akoh CC*, Eitenmiller RR// *Univ Georgia, Dept Food Sci & Technol, Food Sci Bldg, Athens, Ga 30602, USA
J Amer Oil Chem Soc 1994 71 (8) 877
- Analysis of tocopherols in vegetable oils by high-performance liquid chromatography: Comparison of fluorescence and evaporative light-scattering detection
Das B// Ctr Planar Chromatog Res & Applicat, Extended Applicat Lab, Anand Bldg, Mithagar Rd, Bombay 400081, India
J Planar Chromat-Mod TLC 1994 7 (2) 162
- Quantitative HPTLC determination of vitamin D analogs
Endo H, Matsunaga C, Hoshi M, Hayashi T, Takai R, Watanabe E// Tokyo Univ Fisheries, Dept Food Sci & Technol, Konan 4, Minato-ku, Tokyo 108, Japan
Biosens Bioelectron 1994 9 (7) 501
- Determination of dehydroascorbic acid by an enzyme sensor system with a parallel flow cell
Hagar AF, Madsen L, Wales L, Bradford HB// Louisiana Dept Hlth & Hosp, Cent Lab, 325 Loyola Ave, Rm 709, New Orleans, La 70112, USA
J AOAC Int 1994 77 (4) 1047
- Reversed-phase liquid chromatographic determination of vitamin D in milk
Icke G, Nicol D// Royal Perth Hosp, Dept Haematol, Wellington St, Perth, WA, Australia
J Clin Pathol 1994 47 (7) 639
- Automated microbiological assay of thiamin in serum and red cells

- Joosten E, Van den Berg A, Riezler R, Lindenbaum HJN, Stabler SP, Allen RH// Address not available.
Amer J Clin Nutr 1994 **60** (1) 147
Vitamin B₆ was measured by a radioenzymatic assay method: Deproteinized serum is incubated with apoenzyme tyrosine apodecarboxylase (*Amer J Clin Nutr* 1993, **58** 468) (Letter)
- Lewin G, Popov I// *Res Inst Antioxidant Therapy GmbH, Neueschoenhauser Str 1, D-10178 Berlin, FRG
J Biochem Biophys Meth 1994 **28** (4) 277
Photochemiluminescent detection of antiradical activity. III. A simple assay of ascorbate in blood plasma
- Marchetti MN, Bun H, Geiger JM, Durand A// UFR Pharm Marseille, Hosp Univ Pharmacocinet & Toxicocinet Lab, 27 Blvd J Moulin, F-13385 Marseille 5, France
Anal Lett 1994 **27** (10) 1847
Determination of a new retinoid: 9-*cis* retinoic acid in plasma by HPLC
- Maurice DV, Lightsey SF, Hsu KT, Gaylord TG, Reddy RV// Clemson Univ, Poole Agr Ctr, Poultry Sci Dept, Box 340379, Clemson, SC, USA
Food Chem 1994 **50** (4) 367
Cholesterol in eggs from different species of poultry determined by capillary GLC
- Reynolds RD// Coll Assoc Hlth Prof, Dept Nutr & Med Dietet, 1919 West Taylor St, Chicago, IL 60612, USA
Amer J Clin Nutr 1994 **60** (1) 148
Importance of deproteinized serum samples for pyridoxal 5'-phosphate determination (Letter)
- Richheimer SL, Kent MC, Bernart MW// Hauser Chem Res Inc, 5555 Airport Blvd, Boulder, Co 80301, USA
J Chromatogr A 1994 **677** (1) 75
Reversed-phase high-performance liquid chromatographic method using a pentafluorophenyl bonded phase for analysis of tocopherols
- Ross MA// Rowett Res Inst, Greenburn Rd, Aberdeen AB2 9SB, Scotland
J Chromatogr B-Bio Med Appl 1994 **657** (1) 197
Determination of ascorbic acid and uric acid in plasma by high-performance liquid chromatography
- Shimoda M, Shin HC, Kokue E// Tokyo Univ Agr & Technol, Fac Agr, Dept Vet Med, Fuchu, Tokyo 183, Japan
J Vet Med Sci 1994 **56** (4) 701
Simultaneous determination of tetrahydrofolate, 10-formyltetrahydrofolate and 5-methyltetrahydrofolate in rat bile by high-performance liquid chromatography with electrochemical detection
- Takeda N, Yamamoto A// Hyogo Prefectural Inst Publ Hlth, Div Food & Drug Chem, Hyogo ku, Arata cho 2-1, Kobe 652, Japan
J Chromatogr B-Bio Med Appl 1994 **657** (1) 53
Simultaneous determination of 13-*cis*- and all-*trans*-retinoic acids and retinol in human serum by high-performance liquid chromatography
- Tanumihardjo SA, Muherdiyantiningsih, Permaesih D, Dahro AM, Muhilal, Karyadi D, Olson JA// Iowa State Univ Sci & Technol, Dept Food Sci & Human Nutr, 3258 Molec Biol Bldg, Ames, Ia 50011, USA
Amer J Clin Nutr 1994 **60** (1) 142
Assessment of the vitamin A status in lactating and nonlactating, nonpregnant Indonesian women by use of the modified relative dose response (MRDR) test
- Tsang CPW, Fong Y, Lee K// Agr Canada, Ctr Food & Anim Res, Ottawa, Ontario, Canada K1A 0C6
J Nutr Biochem 1994 **5** (8) 411
Measurement of 25-hydroxyvitamin D₃, 1,25-dihydroxyvitamin D₃, and estradiol from a single plasma sample
- Vannucchi H, Da Cunha DF, Bernardes MM, Unamuno MRD// Avda Bandeirantes 3900, BR-14049 Ribeirao Preto, SP, Brazil
Rev Saude Publ 1994 **28** (2) 121
Assessment of vitamins A, E, C and B₂, carotenoid and zinc serum levels in elderly hospital patients (Portuguese, English Abstract)
- Van Schoonhoven J, Schrijver J, Van den Berg H, Haenen GRMM// *TNO, Inst Toxicol & Nutr, Dept Exptl Biol, POB 360, 3700 AJ Zeist, The Netherlands
J Agr Food Chem 1994 **42** (7) 1475
Reliable and sensitive high-performance liquid chromatographic method with fluorometric detection for the analysis of vitamin B₆ in foods and feeds
- Aggarwal SK, Kinter M, Herold DA// *Vet Affairs Med Ctr, 3350 La Jolla Village Dr, San Diego, Ca 92161, USA
Biol Tr Elem Res 1994 **41** (1-2) 89
Mercury determination in blood by gas chromatography-mass spectrometry
- Aggarwal SK, Kinter M, Herold DA// *Address as above.
Clin Chem 1994 **40** (8) 1494
Determination of lead in urine and whole blood by stable isotope dilution gas chromatography-mass spectrometry
- Alessio L, Apostoli P, Braga M, Duca PG, Herber RFM, Nordberg G, Vesterberg O// Univ Brescia, Inst Occupat Hlth, Brescia, Italy
Sci Total Envir 1994 **152** (2) 169
Estimation of pooled reference values for cadmium in blood using meta-analysis and TRACY criteria
- Barrett JFR, Whittaker PG*, Fenwick JD, Williams JG, Lind T// *Univ Newcastle upon Tyne, Royal Victoria Infirm, Dept Obstet, 4th Floor, Leazes Wing, Newcastle upon Tyne NE1 4LP, England
Clin Sci 1994 **87** (1) 91
Comparison of stable isotopes and radioisotopes in the measurement of iron absorption in healthy women
- Coni E, Alimonti A, Bolis GB, Cristallini E, Caroli S// *Ist Super Sanita, Viale Regina Elena 299, I-00161 Rome, Italy
Trace Elem Electrolytes 1994 **11** (2) 84
Differential-pulse polarographic determination of iron in acids, waters, fruit juices and wines
- Diaz MEV, Sanchez JCJ*, Mochon MC, Perez AG// *Univ Seville, Fac Chem, Dept Analyt Chem, E-41012 Seville, Spain
Analyst 1994 **119** (7) 1571
Differential-pulse polarographic determination of iron in acids, waters, fruit juices and wines
- Drake EN, Hain TD// Angelo State Univ, Dept Chem, San Angelo, Tx 76909, USA
Anal Biochem 1994 **220** (2) 336
Palladium(II), magnesium(II), and barium(II) nitrate combinations for matrix modification in electrothermal atomic absorption measurement of total selenium in human urine
- Dubey RK, Puri BK// *Indian Inst Technol, Dept Chem, Hauz Khas, New Delhi 110016, India
Analyst 1994 **119** (7) 1567
Differential-pulse polarographic determination of zinc and manganese in various pharmaceutical and biological samples after adsorption of their morpholine-4 carbodithioates on microcrystalline naphthalene
- Favretto L, Vojnovic D, Campisi B// Univ Trieste, Dipt Econ & Merceol Risorse Nat Prod, Trieste, Italy
Anal Chim Acta 1994 **293** (3) 295
Chemometric studies on minor and trace elements in cow's milk
- Ferreira IMPLVO, Lima JLFC*, Rangel AOSS// *Univ Porto, Fac Farm, Dept Quim-Fis, Rua Anibal Cunha 164, P-4000 Oporto, Portugal
Food Chem 1994 **50** (4) 423
Flow injection titration of chloride in food products with a silver tubular electrode based on an homogeneous crystalline membrane
- Firestone D// US FDA, Div Pesticides & Ind Chem, HFS-336, 200 C St SW, Washington, DC 20204, USA
J AOAC Int 1994 **77** (4) 951
Direct graphite furnace atomic absorption method for determination of lead in edible oils and fats: Summary of collaborative study
- Goossens J, Moens L, Dams R// *State Univ Ghent, Inst Nucl Sci, Analyt Chem Lab, Proeftuinst 86, B-9000 Ghent, Belgium
Anal Chim Acta 1994 **293** (1-2) 171
Determination of lead by flow-injection inductively coupled plasma mass spectrometry comparing several calibration techniques
- Gordon CL, Webber CE, Chettle DR// Chedoke McMaster Hosp, Dept Nucl Med, 1200 Main St West, Hamilton, Ontario, Canada L8N 3Z5
Environ Health Perspect 1994 **102** (8) 690
The reproducibility of ¹⁰⁹Cd-based X-ray fluorescence measurements of bone lead
- Herrero A, Ortiz MC*, Arcos J, Lopez-Palacios J, Sarabia L// *Colegio Univ, Dept Analyt Chem, Apdo 231, E-09080 Burgos, Spain
Anal Chim Acta 1994 **293** (3) 277
Multiple standard addition with latent variables (MSALV): Application to the determination of copper in wine by using differential-pulse anodic stripping voltammetry
- Heydom K// Riso Natl Lab, Div Isotope, POB 49, DK-4000 Roskilde, Denmark
J Trace Elem Exp Med 1994 **7** (1) 33
Analytical techniques and quality control in biomedical trace element research
- Hubl W, Wejborra R, Shafti-Keramat I, Haider A, Hajdusich P, Bayer PM// Wilhelminenspital Stadt Wien, Cent Lab, Montleartstr 37, A-1171 Vienna, Austria
Clin Chem 1994 **40** (8) 1528

7 TRACE ELEMENTS & MINERALS

- Enzymatic determination of sodium, potassium, and chloride in abnormal (hemolyzed, icteric, lipemic, paraproteinemic, or uremic) serum samples compared with indirect determination with ion-selective electrodes
- Ibrahim N// Univ Malaya, Ctr Fdn Studies Sci, 59100 Kuala Lumpur, Malaysia
Appl Radiat Isotopes 1994 45 (8) 897
- Determination of trace elements in cockle *Anadara granosa* L using INAA
- Inoue Y, Kawabata K, Takahashi H, Endo G// Yokogawa Analyt Syst Inc, Div Res & Dev, 11-19 Nakacho 2, Musashino, Tokyo 180, Japan
J Chromatogr A 1994 675 (1-2) 149
- Determination of arsenic compounds using inductively coupled plasma mass spectrometry with ion chromatography
- Kawasaki N, Tanimoto T, Tanaka A, Hayakawa T, Miyasaka N// Natl Inst Hlth Sci, Div Biol Chem & Biol, Setagaya ku, 1-18-1 Kamiyoga, Tokyo 158, Japan
J Chromatogr B-Bio Med Appl 1994 656 (2) 436
- Determination of non-protein-bound iron in human synovial fluid by high-performance liquid chromatography with electrochemical detection
- Kim HW, Yu YJ, Greenburg AG// Brown Univ, Providence, RI 02906, USA
Artif Cell Blood Substit Immobil Biotech 1994 22 (3) 619
- ⁵⁸Fe and neutron activation analysis: A non-radioactive method for tracing hemoglobin iron
- Ma RL, Van Mol W, Adams F*// *Univ Instelling Antwerp, Dept Chem, Univ Pl 1, B-2610 Wilrijk, Belgium
Anal Chim Acta 1994 293 (3) 251
- Selective flow injection sorbent extraction for determination of cadmium, copper and lead in biological and environmental samples by graphite furnace atomic absorption spectrometry
- Mindak WR// US FDA, Elemental Res Branch, 200 C St SW, Washington, DC 20204, USA
J AOAC Int 1994 77 (4) 1023
- Determination of lead in table wines by graphite furnace atomic absorption spectrometry
- Olin KL, Simonoff M, Simonoff G, Halpern GM*, Poilane I// *Univ Calif Davis, Sch Med, Dept Internal Med, Div Rheumatol Allergy & Clin Immunol, TB 192, Davis, Ca 95616, USA
Trace Elem Electrolytes 1994 11 (3) 121
- Evaluation of selenium content of French wheat flour and bread with PIXE technique
- Sahin G, Varol I, Temizer A, Benli K, Demirdamar R, Duru S// Univ Hacettepe, Dept Pharm Toxicol, Ankara 06100, Turkey
Biol Tr Elem Res 1994 41 (1-2) 129
- Determination of aluminium levels in the kidney, liver, and brain of mice treated with aluminium hydroxide
- Seaborn CD, Cheng N, Adeleye B, Owens F, Stoecker BJ*// *Oklahoma State Univ, Dept Nutr Sci, Stillwater, Ok 74078, USA
Biol Tr Elem Res 1994 41 (1-2) 129
- Chromium and chronic ascorbic acid depletion effects on tissue ascorbate, manganese, and ¹⁴C retention from ¹⁴C-ascorbate in guinea pigs
- Skipor AK, Jacobs JJ, Schavocky J, Black J, Galante JO// Rush Presbyterian St Lukes Med Ctr, Dept Orthoped Surg, 1653 West Congress Pkwy, Chicago, IL 60612, USA
Atom Spectrosc 1994 15 (3) 131
- Determination of titanium in human serum by Zeeman electrothermal atomic absorption spectroscopy (AAS)
- Spate VL, Morris JS, Baskett CK, Mason MM, Reams CL, Hunter D, Willett WC// Univ Missouri, Res Reactor, Columbia, Mo 65201, USA
J Radioanal Nucl Chem Art 1994 179 (1) 27
- Determination of fluoride in human nails via cyclic instrumental neutron activation analysis
- Tamura T, Johnston KE, Freeberg LE, Perkins LL, Goldenberg RL// Univ Alabama, Dept Nutr Sci, Birmingham, Al 35294, USA
Biol Tr Elem Res 1994 41 (1-2) 165
- Refrigeration of blood samples prior to separation is essential for the accurate determination of plasma or serum zinc concentrations
- Thienpont LM, Van Nuwenborgh JE, Stockl D// State Univ Ghent, Analyt Chem Lab, Harelbekestr 72, B-9000 Ghent, Belgium
Anal Chem 1994 66 (14) 2404
- Ion chromatography as potential reference methodology for the determination of total calcium and magnesium in human serum (Letter)
- Tummalapalli CM, Williams JC*, Stern TN// *Memphis State Univ, Dept Chem, Memphis, Tn 38152, USA
Anal Lett 1994 27 (11) 2091
- A micro analytical method for the determination of selenium in bovine heart tissue using Zeeman graphite furnace atomic absorption spectrophotometry
- Von Bohlen A, Rechmann P, Tourmann JL, Klockenkamper R// Inst Spektrochem & Angew Spektroskopie, Bunsen Kirchhoff Str 11, D-44139 Dortmund, FRG
J Trace Elem Electr Hlth Dis 1994 8 (1) 37
- Ultramicroanalysis of dental plaque films by total reflection X-ray fluorescence

8 DRUG, BIOCIDES & PROCESSING RESIDUES

- Anderson D, Blowers SD// BIBRA Toxicol Int, Woodmansterne Rd, Carshalton SM5 4DS, Surrey, England
Lancet 1994 344 (8918) 343
- Limited cancer bioassay to test a potential food chemical (Letter)
- Barker SA, Long AR// Louisiana State Univ, Sch Vet Med, Dept Physiol Pharmacol & Toxicol, Residue Studies Lab, Baton Rouge, La 70803, USA
J AOAC Int 1994 77 (4) 848
- Preparation of milk samples for immunoassay and liquid chromatographic screening using matrix solid-phase dispersion
- Bayo J, Moreno MA, Prieta J, Diaz S, Suarez G, Dominguez L*// *Univ Complutense Madrid, Fac Vet, Dept Patol Anim 1, E-28040 Madrid, Spain
J AOAC Int 1994 77 (4) 854
- Chloramphenicol extraction from milk by using the diphasic dialysis method followed by liquid chromatographic determination
- Bowadt S, Johansson B, Fruekilde P, Hansen M, Zilli D, Larsen B, De Boer J// Univ Nth Dakota, Energy & Environm Res Ctr, POB 9018, Grand Forks, ND 58202, USA
J Chromatogr A 1994 675 (1-2) 189
- Supercritical fluid extraction of polychlorinated biphenyls from lyophilized fish tissue
- Boyd D, O'Keefe M*, Smyth MR// *Teagasc, Natl Food Ctr, Dublin 15, Rep Ireland
Analyst 1994 119 (7) 1467
- Matrix solid-phase dispersion as a multiresidue extraction technique for β -agonists in bovine liver tissue
- Brandon DL, Binder RG, Bates AH, Montague WC// USDA ARS, Western Reg Res Ctr, Food Safety & Hlth Res Unit, 800 Buchanan St, Albany, Ca 94710, USA
J Agr Food Chem 1994 42 (7) 1588
- Monoclonal antibody for multiresidue ELISA of benzimidazole anthelmintics in liver
- Brunn H, Georgii S// Staatliches Med Lebensmittel & Vet Untersuchungsamt Mittelhessen, Marburgerstr 54, D-35396 Giessen, FRG
Arch Lebensm-Hyg 1994 45 (3) 66
- Qualitative and quantitative detection of dexamethasone and related xenobiotic corticosteroids in bovine urine by ELISA and HPLC/ELISA
- Cullor JS, Van Eenennaam A, Gardner I, Perani L, Dellinger J, Smith WL, Thompson T, Payne MA, Jensen L, Guterbock WM// Univ Calif Davis, Dept Vet Pathol, Davis, Ca 95616, USA
J AOAC Int 1994 77 (4) 862
- Performance of various tests used to screen antibiotic residues in milk samples from individual animals
- Daeseleire E, Vanoosthuyze K, Van Peteghem C// State Univ Ghent, Food Anal Lab, Harelbekestr 72, B-9000 Ghent, Belgium
J Chromatogr A 1994 674 (1-2) 247
- Application of high-performance thin-layer chromatography and gas chromatography-mass spectrometry to the detection of new anabolic steroids used as growth promoters in cattle fattening
- Defilippi A, Piancone G, Laia RC, Balla S, Tibaldi GP*// *USSL 40, Sanita Publ Lab, via Saudino 3, I-10015 Ivrea, Italy
J Chromatogr B-Bio Med Appl 1994 656 (2) 466
- High-performance liquid chromatography with UV detection and diode-array UV confirmation of isonicotinic acid hydrazide in cattle milk
- Furusawa N, Mukai T*// *Kitasato Univ, Sch Vet Med & Anim Sci, Towada, Aomori 034, Japan
J Chromatogr A 1994 677 (1) 81
- Simultaneous high-performance liquid chromatographic determination of residual sulphamonomethoxine, sulphadimethoxine and their N-4-acetyl metabolites in foods of animal origin
- Helbo V, Van den Broeck M, Maghuintregister G// State Univ Liege, Fac Med Vet, Anal Deures Alimentaires Origine Anim Lab, Bat B42, B-4000 Liege, Belgium
Arch Lebensm-Hyg 1994 45 (3) 57
- Development of a radioreceptor assay for β -adrenergic agonists (German, English Abstract)
- Krahn MM, Ylitalo GM, Buzitis J, Sloan CA, Boyd DT, Chan SL, Varanasi U// NOAA, Natl Marine Fisheries Serv, NW Fisheries Sci Ctr, Div Environm Conservat, 2725 Montlake Blvd East, Seattle, Wa 98112, USA

- Chemosphere* 1994 29 (1) 117
Screening for planar chlorobiphenyl congeners in tissues of marine biota by high-performance liquid chromatography with photodiode array detection
- Lal J, Paliwal JK, Grover PK, Gupta RC*// *Cent Drug Res Inst, Div Pharmacokinetics & Metab, Lucknow 226001, Uttar Pradesh, India
J Chromatogr B-Bio Med Appl 1994 658 (1) 193
Simultaneous liquid chromatographic determination of centchroman and its 7-dimethylated metabolite in serum and milk
- Lancas FM, Galhiane MS, Barbirato MA// Univ Sao Paulo, Inst Fis & Quim Sao Carlos, BR-13560-970 Sao Carlos, Brazil
Chromatographia 1994 39 (1-2) 11
Supercritical fluid extraction of oxadixyl from food crops
- Mayoral AM, Gutierrez C, Ruiz ML, Castanera P*// *CSIC, Ctr Invest Biol, Dept Plant Biol, Velazquez 144, E-28006 Madrid, Spain
J Liq Chromatogr 1994 17 (12) 2651
A high-performance liquid chromatography method for quantification of DIBOA, DIMBOA, and MBOA from aqueous extracts of corn and winter cereal plants
- Meinertz JR, Dawson VK, Gingerich WH, Cheng B, Tubergen MM// Natl Fisheries Res Ctr, La Crosse, WI 54602, USA
JAOAC Int 1994 77 (4) 871
Liquid chromatographic determination of sarafloxacin residues in channel catfish muscle tissue
- Milner NP, Johnson MR, Perry KJ// Hoffmann La Roche Inc, Dept Anim Sci Res, Nutley, NJ 07110, USA
JAOAC Int 1994 77 (4) 875
Determination of sulfadimethoxine and ormetoprim residues in channel catfish fillets after treatment with romet and evaluation of a commercially available rapid diagnostic test for drug residues in fish fillets
- Moran JW, Rodewald JM, Donoho AL, Coleman MR// Eli Lilly & Co, 2001 West Main St, Greenfield, IN 46140, USA
JAOAC Int 1994 77 (4) 885
Determination of monensin in chicken tissues by liquid chromatography with postcolumn derivatization
- Nam KS, King JW*// *USDA ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA
J Agr Food Chem 1994 42 (7) 1469
Supercritical fluid extraction and enzyme immunoassay for pesticide detection in meat products
- Oka H, Ikai Y, Hayakawa J, Masuda K, Harada KI, Suzuki M// Aichi Prefectural Inst Publ Hlth, Tsuji machi, Kita ku, Nagoya 462, Japan
JAOAC Int 1994 77 (4) 891
Improvement of chemical analysis of antibiotics. XIX. Determination of tetracycline antibiotics in milk by liquid chromatography and thin-layer chromatography fast atom bombardment mass spectrometry
- Paulson GD, Feil VJ, Zaylskie RG, Giddings JM, Slanger WD// USDA ARS, Biosci Res Lab, Fargo, ND 58102, USA
JAOAC Int 1994 77 (4) 895
Depletion of residues from milk and blood of cows dosed orally and intravenously with sulfamethazine
- Pensabene JW, Fiddler W// USDA ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, PA 19118, USA
JAOAC Int 1994 77 (4) 981
Gas chromatographic thermal energy analyzer method for *N*-nitrosodibenzylamine in hams processed in elastic rubber netting
- Pineiro EA, Lozano JS, Yusty AL// Univ Santiago de Compostela, Fac Farm, Dept Quim Anal Nutr & Bromatol, Campus Univ, E-15706 Santiago de Compostela, Spain
JAOAC Int 1994 77 (4) 985
Gas chromatographic determination of polychlorinated biphenyls in mussels from Galicia, Spain
- Posyniak A, Semeniuk S, Niedzielska J, Zmudzki J// Natl Vet Res Inst, Dept Pharmacol & Toxicol, PL-24100 Pulawy, Poland
Chem Anal 1994 39 (3) 289
Solid phase extraction and liquid chromatography analysis of nitrofurans compounds in meat
- Renard L, Henry P, Sanders P*, Laurentie M, Delmas JM// *Ctr Natl Etud Vet & Alimentaires, Med Vet Lab, F-35133 Fougeres, France
J Chromatogr B-Bio Med Appl 1994 657 (1) 219
Determination of spiramycin and neospiramycin in plasma and milk of lactating cows by reversed-phase high-performance liquid chromatography
- Sanchez-Brunete C, Garcia-Valcarcel AI, Tadeo JL*// *Inst Nacl Invest Agr, CIT, Dept Protec Vegetal, Apdo 8111, E-28080 Madrid, Spain
J Chromatogr A 1994 675 (1-2) 213
Determination of residues of phenoxy acid herbicides in soil and cereals by gas chromatography-ion trap detection
- Schenck FJ, Wagner R, Hennessy MK, Okrasinski JL// US FDA, Baltimore Dist, 900 Madison Ave, Baltimore, MD 21201, USA
JAOAC Int 1994 77 (4) 1036
Screening procedure for organochlorine and organophosphorous pesticide residues in eggs using a solid-phase extraction cleanup and gas chromatographic detection
- Stehly GR, Plakas SM, El Said KR// US Dept Interior, Natl Fisheries Res Ctr, POB 818, La Crosse, WI 54620, USA
JAOAC Int 1994 77 (4) 901
Liquid chromatographic determination of furazolidone in shrimp
- Takeba K, Itoh T, Matsumoto M, Nakazawa H// Tokyo Metropolitan Res Lab Publ Hlth, Dept Food Hyg & Nutr, Tokyo 160, Japan
JAOAC Int 1994 77 (4) 904
Determination of dephosphate bromofenofos in milk by liquid chromatography with electrochemical detection
- Teltumbade SS, Sherikar AT, Waskar VS, Sherikar AA// Bombay Vet Coll, Dept Food Hyg & Publ Hlth, Bombay 400012, Maharashtra, India
Indian J Anim Sci 1994 64 (7) 774
Detection of residual penicillins in meat employing *Bacillus stearothermophilus* disc assay
- Valverde-Garcia A, Fernandez-Alba AR, Herrera JC, Roldan E// Univ Granada, Dept Quim Inorgan & Quim Analit, Campus Univ Almeria, E-04071 Almeria, Spain
JAOAC Int 1994 77 (4) 1041
Analysis of buprofezin residues in vegetable crops by gas chromatography with mass selective detection in selected ion monitoring mode
- Walker CC, Barker SA*// *Louisiana State Univ, Sch Vet Med, Dept Vet Physiol Pharmacol & Toxicol, Residue Studies Lab, Baton Rouge, LA 70803, USA
JAOAC Int 1994 77 (4) 908
Extraction and enzyme immunoassay of sulfadimethoxine residues in channel catfish (*Ictalurus punctatus*) muscle
- Wilson RT, Gronck JM, Holland KP, Henry AC// USDA, Food Safety & Inspect Serv, Midwestern Lab, POB 5080, St Louis, MO 63115, USA
JAOAC Int 1994 77 (4) 917
Determination of clenbuterol in cattle, sheep, and swine tissues by electron ionization gas chromatography-mass spectrometry
- Yoshida K, Kondo F// Miyazaki Univ, Fac Agr, Dept Vet Publ Hlth, Kibanadai Nishi, Miyazaki 88921, Japan
J Liq Chromatogr 1994 17 (12) 2625
Procedure for liquid chromatographic determination of thiamphenicol in bovine serum and milk

9 TOXINS

- Beutling D// Luisen Str 56, D-10117 Berlin, FRG
Arch Lebensm-Hyg 1994 45 (3) 55
Preliminary examinations regarding the influence of biogenic amines on the detection of *Escherichia coli* enterotoxins by the baby mouse test (German, English Abstract)
- Chen S, Derrick PJ, Mellon FA, Price KR// Univ Warwick, Inst Mass Spectrometry, Coventry CV4 7AL, England
Anal Biochem 1994 218 (1) 157
Analysis of glycoalkaloids from potato shoots and tomatoes by four-sector tandem mass spectrometry with scanning-array detection: Comparison of positive ion and negative ion methods
- Kussak A, Andersson B*, Andersson K// *Natl Inst Occupat Hlth, Div Analyt Chem, PON 7654, S-90713 Umea, Sweden
J Chromatogr B-Bio Med Appl 1994 656 (2) 329
Determination of aflatoxin Q₁ in urine by automated immunoaffinity column clean-up and liquid chromatography
- Mallmann CA, Santurio JM, Baldissera MA, Von Mickwitz G// Free Univ Berlin, Tierartzl Ambulanz Schwarzenbeck, Rontgenstr 12, D-21493 Schwarzenbek, FRG
Rev Microbiol 1994 25 (2) 107
Determination of ochratoxin A in blood serum of pigs by using thin layer chromatography
- O'Brien GM, Wheatley CC, Iglesias C, Poulter NH// Ctr Int Agr Trop, Cassava Qual Unit, AA 6713, Cali, Columbia
J Sci Food Agr 1994 65 (4) 391
Evaluation, modification and comparison of two rapid assays for cyanogens in cassava
- Quiroga NM, Sola I, Varsavsky E// Inst Nacl Tecnol Ind, Dept Tecnol Alimentos, Leandro N Alem 1067, 7 Piso, RA-1001 Buenos Aires, Argentina

- J AOAC Int* 1994 77 (4) 939
Selection of a simple and sensitive method for detecting zearalenone in corn
- Scott PM, Delgado T, Prelusky DB, Trenholm HL, Miller JD// Hlth & Welf Canada, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2
J Environ Sci Hlth B-Pestic 1994 29 (5) 989
Determination of fumonisins in milk
- Stafford RG, Hines HB// USA, Med Res Inst Infect Dis, Div Toxicol, Frederick, Md 21702, USA
J Chromatogr B-Bio Med Appl 1994 657 (1) 119
Method for the identification of saxitoxin in rat urine
- Van Egmond HP, Patel S, Paulsch WE, Sizoo EA, Tuinstra LGM, Wood G, Boenke A, Schurer B, Wagstaffe PJ// Natl Inst Publ Hlth & Environm Protect, Residue Anal Lab, POB 1, 3720 Bilthoven, The Netherlands
Food Addit Contam 1994 11 (4) 449
The development of 5 animal feed reference materials, certified for their aflatoxin-B₁ content
- Xu YC, Mirocha CJ// Univ Minnesota, Dept Plant Pathol, St Paul, Mn 55108, USA
J AOAC Int 1994 77 (4) 942
Analysis of wortmannin (H-1) by liquid chromatography and gas chromatography
- ## 10 ADDITIVES
- Bendtsen AB, Jorgensen SS// Royal Vet & Agr Univ, KVL Ctr Food Res, Thorvaldsensvej 40, DK-1871 Frederiksberg C, Denmark
J AOAC Int 1994 77 (4) 948
Determination of total and free sulfite in unstabilized beer by flow injection analysis
- Bhunja AK// Univ Arkansas, Dept Food Sci, 272 Young Ave, Fayetteville, Ar 72703, USA
Appl Environ Microbiol 1994 60 (8) 2692
Monoclonal antibody-based enzyme immunoassay for pediocins of *Pediococcus acidilactici*
- Fatibello O, Nobrega JA, Guarita dos Santos AJM// Univ Fed Sao Carlos, Dept Quim, Caixa Postal 676, BR-13565905 Sao Carlos, SP, Brazil
Talanta 1994 41 (5) 731
Flow injection potentiometric determination of saccharin in dietary products with relocation of filtration unit
- Gennaro MC, Abrigo C, Cipolla G// Univ Turin, Dipt Chim Analit, via P Giuria 5, I-10125 Turin, Italy
J Chromatogr A 1994 674 (1-2) 281
High-performance liquid chromatography of food colours and its relevance in forensic chemistry
- Kahsai TZ, Mathees DP// *Sth Dakota State Univ, Dept Chem, Brookings, SD 57007, USA
Microchem J 1994 50 (1) 48
Determination of mycophenolic acid in feed materials by high-performance liquid chromatography
- Kaniansky D, Masar M, Madajova V, Marak J// Comenius Univ Bratislava, Fac Nat Sci, Dept Analyt Chem, Mlynska Dolina CH-2, Bratislava 84215, Slovakia
J Chromatogr A 1994 677 (1) 179
Determination of sorbic acid in food products by capillary zone electrophoresis in a hydrodynamically closed separation compartment
- Kawamura Y, Kubo N, Arata H, Ito Y, Tamura M, Yamamoto K// Nakano Vinegar Co Ltd, 2-6 Nakamura cho, Handa 475, Japan
J AOAC Int 1994 77 (4) 1052
A microbial sensor for determination of sulfite in wines
- Mhinzi G, Mosha D// Univ Dar es Salaam, Dept Chem, POB 35061, Dar es Salaam, Tanzania
J Chem Soc Pakistan 1993 15 (4) 269
Use of potentiometric titrimetry in gum arabic quality assessment
- Navado JJB, Cabanillas CG, Salcedo AMC// Univ Castilla La Mancha, Dept Analyt Chem & Food Technol, E-13071 Ciudad Real, Spain
Talanta 1994 41 (5) 789
Simultaneous determination of carminic acid, riboflavin, curcumin and erythrosine by derivative spectrophotometry and ratio spectra derivative
- Oka H, Ikai Y, Ohno T, Kawamura N, Hayakawa J, Harada K, Suzuki M// Aichi Prefectural Inst Publ Hlth, Kita ku, Tsuji machi, Nagoya 462, Japan
J Chromatogr A 1994 674 (1-2) 301
Identification of unlawful food dyes by thin-layer chromatography-fast atom bombardment mass spectrometry
- Patel I, Marshall KRB, Williams C, Othman H, Crosby NT// Lab Govt Chemist, Dept Trade & Ind, Queens Rd, Teddington TW11 0LY, Middx, England
Analyst 1994 119 (7) 1483
Investigation of the stability of medicinal additives in animal feedingstuffs to prepare reference feeds
- Rodewald JM, Moran JW, Donoho AL, Coleman MR// Eli Lilly & Co, Lilly Res Lab, 2001 West Main St, Greenfield, In 46140, USA
J AOAC Int 1994 77 (4) 821
Determination of narasin in raw material, premix, and animal feeds by liquid chromatography and correlation to microbiological assay
- Sanchez FG, Diaz AN, Seria LS// Univ Malaga, Fac Ciencias, Dept Quim Anal, E-29071 Malaga, Spain
Anal Lett 1994 27 (11) 2171
 α -Cyclodextrin enhanced fluorimetric determination of the foodstuff preservative methyl paraben
- Sen NP, Baddoo PA, Seaman SW// Hlth & Welf Canada, Hlth Protect Branch, Food Directorate, Div Food Res, Ottawa, Ontario, Canada K1A 0L2
J Chromatogr A 1994 673 (1) 77
Rapid and sensitive determination of nitrite in foods and biological materials by flow injection or high-performance liquid chromatography with chemiluminescence detection
- Turberg MP, Macy TD, Lewis JJ, Coleman MR// Eli Lilly & Co, Lilly Res Lab, 2001 West Main St, Greenfield, In 46140, USA
J AOAC Int 1994 77 (4) 840
Determination of ractopamine hydrochloride in swine, cattle, and turkey feeds by liquid chromatography with coulometric detection
- Vega M, Garcia G, Saelzer R, Villegas R// Concepcion Univ, Fac Farm, Dept Bromatol Nutr & Dietet, POB 237, Concepcion, Chile
J Planar Chromat-Mod TLC 1994 7 (2) 159
HPTLC analysis of antibiotics in fish feed
- Walters DG, Sherrington KV, Worrell N, Riley RA// BIBRA Toxicol Int, Woodmansterne Rd, Carshalton SM5 4DS, Surrey, England
Food Chem Toxicol 1994 32 (6) 549
Formulation and analysis of food-grade mineral hydrocarbons in toxicology studies
- ## 11 FLAVOURS & AROMAS
- Misharina TA, Golovnya RV, Strashenko ES, Medvedeva IB// Russian Acad Sci, Inst Food Subst, ul Vavilova 28, Moscow 117813, Russia
J Anal Chem-Engl Tr 1994 49 (7) 653
Sorption-structural and mass-spectrometric characteristics of the volatile components of model systems and flavor compounds with meat odor
- Moio L, Etievant P, Langlois D, Dekimpe J, Addeo F// Univ Naples Federico II, Fac Agr, Ist Ind Agr, I-80055 Portici, Italy
J Dairy Res 1994 61 (3) 385
Detection of powerful odorants in heated milk by use of extract dilution sniffing analysis
- Moshonas MG, Shaw PE// USDA ARS, Citrus & Subtrop Prod Lab, 600 Ave SNW, POB 1909, Winter Haven, Fl, USA
J Agr Food Chem 1994 42 (7) 1525
Quantitative determination of 46 volatile-constituents in fresh, unpasteurized orange juices using dynamic headspace gas chromatography
- ## 12 ORGANIC ACIDS
- Marrazza G, Cagnini A, Mascini M// Dipt Sanita Pubbl Epidemiol & Chim Analit Ambientale, Sez Chim Anal, via G Capponi 9, I-50121 Florence, Italy
Talanta 1994 41 (6) 1007
L- and D-Lactate assay in real milk samples with immobilized enzyme reactors and graphite electrode
- Palleschi G, Volpe G, Compagnone D, Lanotte E, Esti M// Univ Roma Tor Vergata, Dipt Sci & Tecnol Chim, via Ric Sci, I-00133 Rome, Italy
Talanta 1994 41 (6) 917
Bioelectrochemical determination of lactic and malic acids in wine
- ## 13 ANIMAL PRODUCTS
- Berg EP, Forrest JC*, Thomas DL, Nusbaum N, Kauffman RG// *Purdue Univ, Dept Anim Sci, West Lafayette, In 47907, USA
J Anim Sci 1994 72 (7) 1728
Electromagnetic scanning to predict lamb carcass composition
- Forrest ARR, Carnegie PR// *Murdoch Univ, Biotechnol Res Grp, Perth, WA 6150, Australia

- Biotechniques* 1994 17 (1) 24
Identification of gourmet meat using FINS (forensically-informative nucleotide sequencing)
- Iso S, Mizuno H, Ogawa H, Mochizuki Y, Iso N// Tokyo Univ Fisheries, Dept Food Sci & Technol, Minato ku, Tokyo 108, Japan
Fisheries Science 1994 60 (1) 127
Differential scanning calorimetry of pressurized fish meat
- Malin EL, Basch JJ, Shieh JJ, Sullivan BC, Holsinger VH// USDA ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, Pa 19118, USA
J Dairy Sci 1994 77 (8) 2199
Detection of adulteration of buttermilk powder by gel electrophoresis
- Mopper B, Sciacchitano CJ// US FDA, NE Reg Lab, 850 3rd Ave, Brooklyn, NY 11232, USA
JAOAC Int 1994 77 (4) 881
Capillary zone electrophoretic determination of histamine in fish
- Nishioka F// Address not available.
Nippon Suisan Gakkaishi 1994 60 (2) 281
Standard analysis for the compositional and functional properties of frozen surimi in Japan (Japanese, English Abstract)
- Roseiro LC, Santos C*, Almeida J, Melo RS// *Inst Nacl Engr & Tecnol Ind, Dept Tecnol Ind Alimentares, Unidade Ind Carneas, R Vale Formoso 1, P-1900 Lisbon, Portugal
Meat Sci 1994 38 (2) 347
Measurement of pH(6.0) in pork using ISFET/REFET and glass electrode methods
- Swatland HJ// Univ Guelph, Dept Food Sci, Guelph, On, Canada N1G 2W1
Food Res Int 1994 27 (5) 433
Dynamic analysis of electromechanical data from a hand-held meat probe in relation to meat structure
- ## 14 PLANT & MICROBIAL PRODUCTS
- Adlercreutz H, Fotsis T, Watanabe S, Lampe J, Wahala K, Makela T, Hase T// Univ Helsinki, Meilahti Hosp, Dept Clin Chem, SF-00290 Helsinki 29, Finland
Cancer Detection Prev 1994 18 (4) 259
Determination of lignans and isoflavonoids in plasma by isotope dilution gas chromatography-mass spectrometry
- Antonelli A, Carnacini A, Versari A// Ist Ind Agr, via S Giacomo 7, I-40126 Bologna, Italy
J High Res Chromatogr 1994 17 (7) 553
Liquid-liquid extraction of silylated polyalcohols from vinegar, and their determination by capillary GC
- Buckee GK// Address not available.
Monatsschr Brauwissen 1994 47 (7-8) 243
Ruggedness testing: Submitted on behalf of the analysis committee of the European Brewery Convention (German, English Abstract)
- De Boever JL, Van Waes J, Cottyn BG, Boucque CV// Natl Inst Anim Nutr, Scheldeweg 68, B-9090 Melle Gontrode, Belgium
Neth J Agr Sci 1994 42 (2) 105
The prediction of forage maize digestibility by near infrared reflection spectroscopy
- Feng G, Seib PA// Kansas State Univ Agr & Appl Sci, Dept Grain Sci & Ind, Manhattan, Ks 66506, USA
Cereal Chem 1994 71 (4) 330
Instrumental probe and method to measure stickiness of cooked spaghetti and noodles
- Gatchalian MM, De Leon SY, Yano T// Univ Philippines, Dept Food Sci & Nutr, 46 Aguinaldo St Area 1, Up Campus, Quezon D1101, Philippines
J Food Eng 1994 23 (3) 253
Measurement of young coconut (*Cocos nucifera*, L) maturity by sound waves
- Head EJH, Harris LR// Fisheries & Oceans Canada, Bedford Inst Oceanog, Div Biol Oceanog, POB 1006, Dartmouth, Nova Scotia, Canada B2Y 4A2
Mar Ecol-Progr Ser 1994 110 (1) 75
Feeding selectivity by copepods grazing on natural mixtures of phytoplankton determined by HPLC analysis of pigments
- Hutter KJ, Benkel C, Herter T, Popp FA// Inst Zellforsch, Technol Pk, D-67661 Kaiserslautern, FRG
Monatsschr Brauwissen 1994 47 (7-8) 237
Study of different species of barley with the help of the luminescence method (German, English Abstract)
- Latorre MJ, Garcia-Jares C, Medina B, Herrero C// *Fac Ciencias Lugo, Dept Quim Anal Nutr & Bromatol, Augas Ferreas s/n, E-27002 Lugo, Spain
J Agr Food Chem 1994 42 (7) 1451
Pattern recognition analysis applied to classification of wines from Galicia (northwestern Spain) with certified brand of origin
- Lou SN, Montag A// Univ Hamburg, Inst Biochem & Lebensmittelchem, Grindelallee 117, D-20146 Hamburg, FRG
Deut Lebensm-Rundsch 1994 90 (7) 212
A method to determine nucleic acid compounds from mushrooms (German, English Abstract)
- Low NH, Brause A, Wilhelmsen E// Univ Saskatchewan, Dept Appl Microbiol & Food Sci, Saskatoon, Saskatchewan, Canada S7N 0W0
JAOAC Int 1994 77 (4) 965
Normative data for commercial pineapple juice from concentrate
- Manas E, Bravo L, Saura-Calixto F// Univ Alcalá de Henares, Fac Ciencias, Dept Quim Anal & Ingn Quim, E-28871 Alcalá de Henares, Spain
Food Chem 1994 50 (4) 331
Sources of error in dietary fibre analysis
- Oda S// Natl Inst Agrobiol Resources, Dept Cell Biol, Kannondai 2-1-2, Tsukuba, Ibaraki 305, Japan
Cereal Chem 1994 71 (4) 394
Two-dimensional electrophoretic analysis of friabilin (Letter)
- Oderiz MLV, Blanco MEV, Hernandez JL, Lozano JS, Rodriguez MAR// Univ Santiago de Compostela, Fac Farm, Dept Quim Analit Nutr & Bromatol, Campus Univ, E-15706 Santiago de Compostela, Spain
JAOAC Int 1994 77 (4) 1056
Simultaneous determination of organic acids and vitamin C in green beans by liquid chromatography
- Pezet R, Pont V, Cuenat P// Address not available.
J Chromatogr A 1994 673 (2) 303
Method to determine resveratrol and pterostilbene in grape berries and wines using high-performance liquid chromatography and highly sensitive fluorimetric detection (*J Chromatogr A* 1994, 663 191) (Erratum)
- Reeves JB// USDA ARS, Beltsville Agr Res Ctr, Ruminant Nutr Lab, Bldg 200, Rm 126, BARC E, Beltsville, Md 20705, USA
JAOAC Int 1994 77 (4) 814
Influence of pH, ionic strength, and physical state on the near-infrared spectra of model compounds
- Reeves JB, Schmidt WF// Address as above.
J Agr Food Chem 1994 42 (7) 1462
Solid-state ¹³C NMR analysis of forage and byproduct-derived fiber and lignin residues. Resolution of some discrepancies among chemical, infrared and pyrolysis gas chromatography-mass spectroscopic analyses
- Samo AR, Arbani SA, Khahawer MY, Chippa MA, Qureshi GA// *Mehran Univ Engr & Technol, Dept Petr & Gas, Jamshoro, Pakistan
J Chem Soc Pakistan 1993 15 (3) 182
The simultaneous analysis of theophylline, caffeine and their metabolites in human plasma by HPLC
- Sapirstein HD, Roller R, Bushuk W// Univ Manitoba, Dept Food Sci, Winnipeg, Manitoba, Canada R3T 2N2
Cereal Chem 1994 71 (4) 383
Instrumental measurement of bread crumb grain by digital image analysis
- Schuurink RC, Tas AC, Heidekamp F// *RUL, TNO, Dept Molec Plant Biotechnol, Ctr Phytotech, Wassenaarseweg 64, 2333 AL Leiden, The Netherlands
J Cereal Sci 1994 20 (1) 79
Characterisation of isolated aleurone layers from dormant and non-dormant barley grains by direct chemical ionisation pyrolysis mass spectrometry
- Takahashi Y, Miyachi J, Ogino T, Kimura J// Aoyama Gakuin Univ, Coll Sci & Engr, Dept Chem, Setagaya ku, Tokyo 157, Japan
Nippon Suisan Gakkaishi 1994 60 (3) 371
Analysis of ether soluble components in *Undaria pinnatifida* (Japanese, English Abstract)
- Tamura H, Hayashi Y, Sugisawa H, Kondo T// Kagawa Univ, Dept Bioresource Sci, Miki-cho, Kagawa 761-07, Japan
Phytochem Analysis 1994 5 (4) 190
Structure determination of acylated anthocyanins in Muscat Bailey A grapes by homonuclear Hartmann-Hahn (HOHAHA) spectroscopy and liquid chromatography-mass spectrometry
- Tisza S, Sass P, Molnar-Perl I// *L Eotvos Univ, Inst Inorgan & Analyt Chem, POB 32, H-1518 Budapest 112, Hungary
J Chromatogr A 1994 676 (2) 461
Optimization of the simultaneous determination of acids and sugars as their trimethylsilyl(oxime) derivatives by gas chromatography-mass spectrometry and determination of the composition of six apple varieties
- Wang WQ, Tanaka Y, Han ZK, Cheng J// Canc Res Ctr Hawaii, Div Prevent & Control, 1236 Lauhala St, Honolulu, HI 96813, USA
J Agr Food Chem 1994 42 (7) 1584
Radioimmunoassay for quantitative analysis of formononetin in blood plasma and rumen fluid of wethers fed red clover