



# Bibliography of analytical, nutritional and clinical methods

(Five weeks journals - Search completed at 6th January 1995)

## 1 BOOKS, REVIEWS & SYMPOSIA

*Grasas Aceites* 1994 45 (1-2)  
 Special issue: International Symposium: The Sensory and Nutritional Quality of Virgin Olive Oil: Milan, Italy, 23-24 November 1993 (Includes papers on analysis)  
 Liu KS// Jacob Hartz Seed Co Inc, Soyfood Lab, 901 Nth Park Ave, Stuttgart, Ar 72160, USA  
*J Amer Oil Chem Soc* 1994 71 (11) 1179  
 Preparation of fatty acid methyl esters for gas-chromatographic analysis of lipids in biological materials (Review)

## 2 GENERAL

Cabana G, Rasmussen JB// McGill Univ, Dept Biol, 1205 Ave Docteur Penfield, Montreal, Quebec, Canada H3A 1B1  
*Nature* 1994 372 (6503) 255  
 Modelling food chain structure and contaminant bioaccumulation using stable nitrogen isotopes  
 Cardello AV// USA, Natick Res Dev & Engn Ctr, Natick, Ma 01760, USA  
*Cereal Food World* 1994 39 (8) 567  
 Sensory-instrumental research  
 Desbois P, Le Botlan D\*\*// \*Fac Sci Nantes, RMN & React Chim Lab, CNRS, URA 472, F-44072 Nantes, France  
*J Food Sci* 1994 59 (5) 1088  
 Proton low-field NMR measurements on crackers  
 Dooley JSG// Univ Ulster, Dept Biol & Biomed Sci, Coleraine BT52 1SA, Londonderry, Northern Ireland  
*Biotechnol Adv* 1994 12 (4) 669  
 Nucleic acid probes for the food industry  
 Ellis KJ, Shypailo RJ, Pratt JA, Pond WG// Baylor Coll Med, USDA ARS, Children's Nutr Res Ctr, Dept Pediat, 1100 Bates' St, Houston, Tx 77030, USA  
*Amer J Clin Nutr* 1994 60 (5) 660  
 Accuracy of dual-energy X-ray absorptiometry for body-composition measurements in children  
 Lichtenbelt WDV, Westerterp KR, Wouters L// Univ Limburg, Dept Human Biol, POB 616, 6200 MD Maastricht, The Netherlands  
*Brit J Nutr* 1994 72 (4) 491  
 Deuterium dilution as a method for determining total body water: Effect of test protocol and sampling time  
 Wheeler ML, Buzzard IM// Indiana Univ, Med Ctr, Regenstrief Hlth Ctr, Ctr Diabet Res & Training, Rm 234, 1001 West 10th St, Indianapolis, In 46202, USA  
*J Amer Diet Assn* 1994 94 (11) 1255  
 Precise methodology conveys the value and validity of dietary data

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Bruckner H, Westhauser T// Univ Hohenheim, Inst Food Technol, D-70593 Stuttgart, FRG  
*Chromatographia* 1994 39 (7-8) 419  
 Chromatographic determination of D-amino acids as native constituents of vegetables and fruits  
 Campos E, Fievet P, Caces E, Fruchart JC, Fievet C\*\*// \*Inst Pasteur, SERLIA, F-59019 Lille, France  
*Clin Chim Acta* 1994 230 (1) 43  
 A screening method for abnormally high lipoprotein(a) concentrations by agarose lipoprotein electrophoresis  
 Claeys E, Uytterhaegen L, Buts B, Demeyer D// Gent Univ, Dept Anim Prod, Proefhoevest 10, B-9090 Melle, Belgium  
*Meat Sci* 1995 39 (2) 177

Quantification of beef myofibrillar proteins by SDS-PAGE  
 Herraiz T, Casal V, Polo MC// CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain  
*Z Lebensmittel-Untersuch Fors* 1994 199 (4) 265  
 Reversed-phase HPLC analysis of peptides in standard and dairy samples using on-line absorbance and post-column OPA-fluorescence detection  
 Kauffman JA, Mills ENC\*, Brett GM, Fido RJ, Tatham AS, Shewry PR, Onishi A, Proudlove MO, Morgan MRA// \*AFRC Inst Food Res, Norwich Lab, Dept Food Molec Biochem, Norwich Res Pk, Norwich NR4 7UA, England  
*J Sci Food Agr* 1994 66 (3) 345  
 Immunological characterisation of barley polypeptides in lager foam  
 Kirschbaum J, Luckas B, Beinert WD// Univ Hohenheim, Inst Food Chem, Pfaffenwaldring 55, D-70569 Stuttgart, FRG  
*Amer Lab* 1994 26 (15) C28  
 HPLC analysis of biogenic amines and amino acids in food - after automatic pre-column derivatization with 9-fluorenylmethyl chloroformate  
 Meister U, Schramm G, Symmank H// Inst Getreideverarbeitung GmbH, Arthur Scheunert Allee 40-41, D-14558 Bergholz Rehbrücke, FRG  
*Z Lebensmittel-Untersuch Fors* 1994 199 (4) 275  
 Determination of activities of lipase, lipoxigenase and peroxidase in native and extruded cereal brans (German, English Abstract)  
 Moharram MA, Abd-el-Nour KN, Abd-el-Raof G// Natl Res Ctr, Dept Spect, Cairo, Egypt  
*Polym Degrad Stabil* 1994 45 (3) 429  
 Infrared spectra and dielectric properties of thermally treated soybean proteins  
 Murdoch SJ, Breckenridge WC\*\*// \*Dalhousie Univ, Dept Biochem, Halifax, Nova Scotia, Canada B3H 4H7  
*Anal Biochem* 1994 222 (2) 427  
 Development of a density gradient ultracentrifugation technique for the resolution of plasma lipoproteins which avoids Apo E dissociation  
 Peaper DR, Jones HL// Address not available.  
*J Inst Brew* 1994 100 (6) 397  
 Determination of S-methylmethionine in malt by alkaline hydrolysis and head-space gas chromatography - A collaborative trial  
 Scheller G, Stahl B, Weyd S, Karas M, Hillenkamp F, Schreier P\*\*// \*Univ Wurzburg, Lehrstuhl Lebensmittelchem, D-97074 Wurzburg, FRG  
*Phytochem Analysis* 1994 5 (6) 281  
 Accurate molecular mass determination by mass spectrometrical techniques: Differentiation of soybean lipoxigenase isoenzymes  
 Sierralta WD, Qualmann B, Klobasa F// Max Planck Inst Exptl Endocrinol, POB 610309, D-30603 Hannover, FRG  
*J Vet Med A-Zbl Vet A-Physiol* 1994 41 (6) 421  
 Passage of a heterologous protein through ileal enterocytes of newborn piglets: Immunolabelling of bovine serum albumin at the light- and electron microscopic level  
 Wahlgren NM, Dejmek P, Drakenberg T// Lund Univ, Dept Food Technol, POB 124, S-22100 Lund, Sweden  
*J Dairy Res* 1994 61 (4) 495  
 Secondary structures in  $\beta$ -casein peptide 1-42: A two dimensional nuclear magnetic resonance study  
 Zoon P, Ansems C, Faber EJ// NIZO, POB 20, 6710 BA Ede, The Netherlands  
*Neth Milk Dairy J* 1994 48 (3) 141  
 Measurement procedure for concentration of active rennet in cheese

## 4 CARBOHYDRATES

Colquhoun IJ, Ralet MC, Thibault JF\*, Faulds CB, Williamson G// \*INRA, Biochim & Technol Glucides Lab, BP 27, F-44026 Nantes, France  
*Carbohydr Res* 1994 263 (2) 243  
 Structure identification of feruloylated oligosaccharides from sugar-beet pulp by NMR spectroscopy  
 Lopez-Hernandez J, Gonzalez-Castro MJ, Vazquez-Bianco ME, Vazquez-Oderiz ML, Simal-Lozano J// Univ Santiago de Compostela, Fac Farm, Dept

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical, nutritional and clinical methods. The bibliography is divided into fourteen sections: 1 Books, Reviews & Symposia; 2 General; 3 Amino Acids, Proteins & Enzymes; 4 Carbohydrates; 5 Lipids; 6 Vitamins & Co-factors; 7 Trace Elements & Minerals; 8 Drug, Biocide & Processing Residues; 9 Toxins; 10 Additives; 11 Flavours & Aromas; 12 Organic Acids; 13 Animal Products; 14 Plant & Microbial Products. Within each section, articles are listed in alphabetical order with respect to the author. Where there are no papers to appear under a heading, it will be omitted.

Quim Analit Nutr & Bromatol, Area Nutr & Bromatol, E-15706 Santiago de Compostela, Spain

*J Food Sci* 1994 **59** (5) 1048

HPLC determination of sugars and starch in green beans

Sanchez-Castillo CP, Dewey PJS, Bourges H, James WPT// Inst Nacl Nutr Salvador Zubiran, Subdirecc Nutr Exptl & Ciencia Alimentos, Vasco Quiroga 15, Mexico City 14000, DF, Mexico

*Arch Latinoamer Nutr* 1994 **44** (2) 68

Dietary fibre, what is it and how is it measured?

Saska M, Lancrenon X// LSU, Ctr Agr, Audubon Sugar Inst, Sugar Stn, Baton Rouge, La 70803, USA

*Int Sugar J* 1994 **96** (1150) 403

Application of continuous chromatographic separation in the sugar. III. Desugaring of cane molasses

Wasilik KR, Fulcher RG, Jones RJ, Gengenbach BG// Univ Minnesota, Dept Agron & Plant Genet, 1991 Budford Circle, St Paul, Mn 55108, USA

*Starch* 1994 **46** (10) 369

Characterization of starch granules in maize using microspectrophotometry

## 5 LIPIDS

Abidi SL, Mounts TL, Rennick KA// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, Il 61604, USA

*J Liq Chromatogr* 1994 **17** (17) 3705

Separations of major soybean phospholipids on  $\beta$ -cyclodextrin-bonded silica

Adosraku RK, Choi GTY, Constantinou-Kokotos V, Anderson MM, Gibbons WA// \*Univ London, Sch Pharm, Ind Ctr Pharmaceut Res, 29-39 Brunswick Sq, London WC1N 1AX, England

*J Lipid Res* 1994 **35** (11) 1925

NMR lipid profiles of cells, tissues, and body fluids: Proton NMR analysis of human erythrocyte lipids

Ball MJ, Robertson IK, Woods M// Deakin Univ, Sch Nutr & Publ Hlth, Toorak Campus, Gleferrie Rd, Melbourne, Vic, Australia

*Ann Clin Biochem* 1994 **31** (6) 556

Reflotron cholesterol measurement in general practice: Accuracy and detection of errors

Beheshti I, Wessels LM, Eckfeldt JH// \*Univ Minnesota, Dept Pathol & Lab Med, Box 609, UMMC, Minneapolis, Mn 55455, USA

*Clin Chem* 1994 **40** (11 Pt 1) 2088

EDTA-plasma versus serum differences in cholesterol, high-density-lipoprotein cholesterol, and triglyceride as measured by several methods

Bicanic D, Chirtoc M, Chirtoc I, Van Veldhuizen B, Favier JP, Helander P, Harryvan J, Cozijnsen J, Lubbers M// Agr Univ Wageningen, Dept Agr Engn & Phys, Laser Photoacoust Lab, Bomenweg 4, 6703 HD Wageningen, The Netherlands

*J Phys IV* 1994 **4** (C7) 487

New approach in determining absorption coefficients of strongly absorbing liquids: Optothermal studies on sunflower oil, oleic acid (and its chloroform solutions) at 3.39 microns

Bordier CG, Sellier N, Foucault AP, Le Goffic F// ENSCP-CNRS, Bioorgan & Biotechnol Lab, 11 rue Pierre & Marie Curie, F-75231 Paris 05, France

*Chromatographia* 1994 **39** (5-6) 329

Characterization and purification of fatty acid methyl esters from the liver oil of the deep sea shark (*Centrophorus squamosus*) by gas chromatography-mass spectrometry and counter-current chromatography

Caboni MF, Menotta S, Lercker G// Univ Bologna, Ist Ind Agrarie, via S Giacomo 7, I-40126 Bologna, Italy

*J Chromatogr A* 1994 **683** (1) 59

High-performance liquid chromatography separation and light-scattering detection of phospholipids from cooked beef

Cardenas MS, Ballesteros E, Gallego M, Valcarcel M// Univ Cordoba, Fac Sci, Dept Analyt Chem, E-14004 Cordoba, Spain

*Anal Biochem* 1994 **222** (2) 332

Sequential determination of triglycerides and free fatty acids in biological fluids by use of a continuous pretreatment module coupled to a gas chromatograph

Chase GW, Akoh CC\*, Eitenmiller RR// \*Univ Georgia, Dept Food Sci & Technol, Athens, Ga 30602, USA

*J Amer Oil Chem Soc* 1994 **71** (11) 1273

Evaporative light scattering mass detection for high-performance liquid chromatographic analysis of sucrose polyester blends in cooking oils

De Jong C, Palma K, Neeter R// NIZO, POB 20, 6710 BA Ede, The Netherlands

*Neth Milk Dairy J* 1994 **48** (3) 151

Sample preparation before capillary gas-chromatographic estimation of free fatty acids in fermented dairy products

Franko M, Bicanic D, Van de Bovenkamp P// Jozef Stefan Inst, Dept Environm & Analyt Chem, Jamova 39, Ljubljana 61111, Slovenia

*J Phys IV* 1994 **4** (C7) 479

Dual beam infrared thermal lens spectrometry at 965  $\text{cm}^{-1}$  absorption band as a measure of nonconjugated *trans* fatty acids content in margarine samples

Fyffe JA// Queen Elizabeth II Hosp, Dept Clin Biochem, Welwyn Garden City AL7 4HQ, Herts, England

*Ann Clin Biochem* 1994 **31** (6) 568

Long-term experience of quality assurance of cholesterol testing in a general practice surgery

Genot C, Kansci G, Laroche M// INRA, Etud Interact Molec Alimentaires Lab, BP 527, F-44026 Nantes 03, France

*Sci Aliment* 1994 **14** (5) 673

Measurement of phospholipid oxidation in model membranes by determination of oxygen consumption with a semi-automatic polarographic method

Hradec J, Dufek P// Inst Hematol & Blood Transfus, Dept Exptl Virol, Korunni 108, CR-10103 Prague 10, Czech Republic

*J Chromatogr B-Biomed Appl* 1994 **660** (2) 386

Determination of cholesteryl 14-methylhexadecanoate in blood serum by reversed-phase high-performance liquid chromatography

Kansci G, Genot C\*, Gandemer G// \*INRA, Etud Interact Molec Alimentaires Lab, BP 527, F-44026 Nantes 03, France

*Sci Aliment* 1994 **14** (5) 663

Evaluation of antioxidant effect of carnosine on phospholipids by oxygen uptake and TBA test (French, English Abstract)

Koven WM, Henderson RJ, Sargent JR// Israel Oceanog & Limnol Res, Natl Ctr Mariculture, POB 1212, IL-88112 Eilat, Israel

*Fish Physiol Biochem* 1994 **13** (4) 275

Lipid digestion in turbot (*Scophthalmus maximus*). II. Lipolysis *in vitro* of  $^{14}\text{C}$ -labelled triacylglycerol, cholesterol ester and phosphatidylcholine by digesta from different segments of the digestive tract

Luc G, Fruchart JC// Inst Pasteur, SERLIA, INSERM, U325, 1 rue Professeur Calmette, F-59019 Lille, France

*Presse Medicale* 1994 **23** (31) 1446

New methods for lipid analysis (French, English Abstract)

Molkentin J, Precht D// Bundesanstalt Milchwforsch, Inst Chem & Phys, POB 6069, D-24121 Kiel, FRG

*Chromatographia* 1994 **39** (5-6) 265

Comparison of packed and capillary columns for quantitative gas chromatography of triglycerides in milk fat

Narasimhan S, Mangala GKS, Kumar AKV, Chand N, Rajalakshmi D// Cent Food Technol Res Inst, Dept Sensory Anal, Mysore 570013, Karnataka, India

*J Amer Oil Chem Soc* 1994 **71** (11) 1267

Kinetics of the Kreis test through response surface methodology

Sawabe A, Morita M, Okamoto T, Ouchi S// Kinki Univ, Inst Comprehens Agr Sci, Nara 631, Japan

*Biol Mass Spectrom* 1994 **23** (11) 660

The location of double bonds in a cerebroside from edible fungi (mushroom) estimated by B/E linked scan fast atom bombardment mass spectrometry

Shahidi F, Wanasundara U, Brunet N// Mem Univ New Foundland, Dept Biochem, St Johns, Newfoundland, Canada A1B 3X9

*Food Res Int* 1994 **27** (6) 555

Oxidative stability of oil from blubber of harp seal (*Phoca groenlandica*) as assessed by NMR and standard procedures

Smith KW, Perkins JM, Jeffrey BSJ, Phillips DL// Unilever Res Labs, Colworth House, Sharnbrook MK44 1LQ, Beds, England

*J Amer Oil Chem Soc* 1994 **71** (11) 1219

Separation of molecular species of *cis* and *trans*-triacylglycerols in *trans*-hardened confectionery fats by silver ion high-performance liquid chromatography

Ulberth F, Henninger M// Agr Univ Vienna, Dept Dairy Res & Bacteriol, A-1180 Vienna, Austria

*J Dairy Res* 1994 **61** (4) 517

Quantitation of *trans* fatty acids in milk fat using spectroscopic and chromatographic methods

Warnick GR, Leary ET, Ammirati EB, Allen MP// Pacific Biometr Inc, 1100 Eastlake Ave East, Seattle, Wa 98109, USA

*Arch Pathol Lab Med* 1994 **118** (11) 1110

Cholesterol in fingerstick capillary specimens can be equivalent to conventional venous measurements

Ziegler G, Geier-Greguska J, Grapin J// Fraunhofer Inst Lebensmitteltechnol & Verpackung, Schragenhofstr 35, D-80992 Munich, FRG

*Fett Wiss Technol* 1994 **96** (10) 390

HPLC-analysis of bloom (German, English Abstract)

## 6 VITAMINS & CO-FACTORS

Campiglio A// Univ Pavia, Dipt Chim Farmaceut, via Taramelli 12, I-27100 Pavia, Italy

*Analyst* 1994 **119** (10) 2209

Potentiometric microtitration of vitamin B<sub>1</sub> with phosphotungstic acid by using a phosphotungstate-sensitive electrode and its application to the analysis of pharmaceutical preparations

Chen TM, Chen BH// \*Fu Jen Catholic Univ, Dept Nutr & Food Sci, Taipei 242, Taiwan

*Chromatographia* 1994 **39** (5-6) 346

Optimization of mobile phases for HPLC of *cis-trans* carotene isomers

- Chuang CZ, Troclair G, Lopez A// Louisiana State Univ, Med Ctr, Sch Med, Dept Med, Nutr Sect, New Orleans, La 70112, USA  
*J Liq Chromatogr* 1994 17 (17) 3613  
Adaptation of a carotenoid procedure to analyze carotenoids, retinol, and  $\alpha$ -tocopherol simultaneously
- Daoud HG, Biacs PA, Dakar MA, Hajdu F// CFRI, Herman Otto u 15, H-1022 Budapest, Hungary  
*J Chromatogr Sci* 1994 32 (11) 481  
Ion-pair chromatography and photodiode-array detection of vitamin C and organic acids
- Diack M, Saska M\*// \*Louisiana State Univ, Ctr Eye, Audubon Sugar Inst, Sugar Stn, Baton Rouge, La 70803, USA  
*J Amer Oil Chem Soc* 1994 71 (11) 1211  
Separation of vitamin E and  $\gamma$ -oryzanol from rice bran by normal-phase chromatography
- Giuliano AR, Neilson EM, Yap HH, Baier M, Canfield LM\*// \*Univ Arizona, Dept Biochem, Tucson, Az 85721, USA  
*J Nutr Biochem* 1994 5 (11) 551  
Quantitation of and inter/intra-individual variability in major carotenoids of mature human milk
- Gonzalez-Corbella MJ, Lloberas-Blanch N, Castellote-Bargallo AI, Lopez-Sabater MC\*, Rivero-Urgell M// \*Univ Barcelona, Fac Farm, Dept Ciencias Fisiol Humanas & Nutr, Unitat Nutr & Bromatol, E-08029 Barcelona, Spain  
*J Chromatogr B-Biomed Appl* 1994 660 (2) 395  
Determination of  $\alpha$ -tocopherol in plasma and erythrocytes by high-performance liquid chromatography
- Iwaki M, Ogiso T, Hayashi H, Lin ET, Benet LZ// Kinki Univ, Fac Pharmaceut Sci, 3-4-1 Kowakae, Osaka 577, Japan  
*J Chromatogr B-Bio Med Appl* 1994 661 (1) 154  
Simultaneous measurement of nicotinic acid and its major metabolite, nicotinic acid in urine using high-performance liquid chromatography: Application of solid-liquid extraction
- Kocjan B, Silwiok J// Silesian Univ, Inst Chem, 9 Szkolna St, PL-40006 Katowice, Poland  
*J Planar Chromat-Mod TLC* 1994 7 (4) 327  
Chromatographic and spectroscopic comparison of the hydrophobicity of vitamins D<sub>2</sub> and D<sub>3</sub>
- Matchar DB, McCrory DC, Millington DS, Feussner JR// Duke Univ, Ctr Hlth Policy Res & Educ, POB 90253, Durham, NC 27708, USA  
*Amer J Med Sci* 1994 308 (5) 276  
Performance of the serum cobalamin assay for diagnosis of cobalamin deficiency
- Morelli B// Univ Bari, Dipt Chim, Campus Univ, via E Orabona 4, I-70126 Bari, Italy  
*Anal Lett* 1994 27 (14) 2751  
Determination of ternary mixtures of vitamins by ratio-spectra-crossing derivative spectrophotometry
- Wei S, Tanaka H, Kubo T, Ichikawa M, Seino Y// Okayama Univ, Sch Med, Dept Pediat, 20501 Shikata cho, Okayama 700, Japan  
*Anal Biochem* 1994 222 (2) 359  
A multiple assay for vitamin D metabolites without high-performance liquid chromatography
- ## 7 TRACE ELEMENTS & MINERALS
- Bowins RJ, McNutt RH// McMaster Univ, Dept Geol, Hamilton, Ontario, Canada L8S 4M1  
*J Anal Atom Spectrom* 1994 9 (11) 1233  
Electrothermal isotope dilution inductively coupled plasma mass spectrometry method for the determination of sub-ng ml<sup>-1</sup> levels of lead in human plasma
- Bruhn CG, Rodriguez AA, Barrios C, Jaramillo VH, Becerra J, Gonzales U, Gras NT, Reyes O// Concepcion Univ, Fac Farm, Dept Anal Instrumental, Casilla 237, Concepcion, Chile  
*J Trace Elem Electr Hlth Dis* 1994 8 (2) 79  
Determination of total mercury in scalp hair of pregnant and nursing women resident in fishing villages in the eighth region of Chile
- Duch ES, Chavez JDH// Inst Tecnol Merida, Ctr Grad & Invest, Merida, Yucatan, Mexico  
*Rev Espan Cien Tecnol Aliment* 1994 34 (4) 450  
Characterization of honeys gathered from tahonal (*Viguiera dentata*, var. *heliantoides*) and tzitzilche (*Gimnapodium antigonoides*, Blake) flowers by their mineral content utilizing discriminant analysis
- Garwin JL, Rosenholtz NS, Abdollahi A// Med Coll Penn, Ctr Lipid Disorder, 3300 Henry Ave, Philadelphia, Pa 19129, USA  
*J Food Sci* 1994 59 (5) 1135  
Two colorimetric assays for iodine in foods
- Godlewska B, Hulanicki A, Abou-Shakra FR// Univ Warsaw, Inst Chem, Branch Bialystok, Bialystok, Poland  
*Anal Lett* 1994 27 (14) 2647  
Determination of trace amounts of cobalt in blood
- Granadillo VA, De Machado LP, Romero RA\*// \*Univ Zulia, Fac Ciencias Exptl, Analit Instrumentac Lab, Maracaibo, Venezuela  
*Anal Chem* 1994 66 (21) 3624  
Determination of total chromium in whole blood, blood components, bone, and urine by fast furnace program electrothermal atomization AAS and using neither analyte isoformation nor background correction
- Holak W, Specchio JJ// US FDA, 850 3rd Ave, Brooklyn, NY 11232, USA  
*J Anal Atom Spectrom* 1994 9 (10) 2179  
Determination of selenium in food supplements by differential-pulse cathodic stripping voltammetry in the presence of added copper
- Larsen EH, Sturup S// Natl Food Agcy Denmark, Inst Food Chem & Nutr, 19 Morkhoj Bygade, DK-2860 Soborg, Denmark  
*J Anal Atom Spectrom* 1994 9 (10) 1099  
Carbon-enhanced inductively coupled plasma mass spectrometric detection of arsenic and selenium and its application to arsenic speciation
- Mwaura K, Narayana DGS, Kinyua AM// Univ Nairobi, Dept Phys, POB 30197, Nairobi, Kenya  
*J Trace Elem Electr Hlth Dis* 1994 8 (2) 115  
Sample preparation technique for iodine determination in urine and water samples
- Proesmans W, Goos G, Emma F, Geusens P, Nijs J, Dequeker J// Univ Hosp Gasthuisberg, Dept Paediat, Herestr 49, B-3000 Louvain, Belgium  
*Eur J Pediatr* 1994 153 (11) 807  
Total body mineral mass measured with dual photon absorptiometry in healthy children
- Robbrecht HJ, Hendrix P, Van Cauwenbergh R, Deelstra HA// Univ Instelling Antwerp, Dept Pharmaceut Sci, Univ Plein 1, B-2610 Wilrijk, Belgium  
*Z Lebensmittel-Untersuch Fors* 1994 199 (4) 251  
Actual daily dietary intake of selenium in Belgium, using duplicate portion sampling
- Rubio LA, Grant G, Dewey P, Bremner I, Pusztai A// Rowett Res Inst, Greenburn Rd, Bucksburn AB2 9SB, Aberdeen, Scotland  
*J Nutr* 1994 124 (11) 2204  
The intestinal true absorption of <sup>65</sup>Zn in rats is adversely affected by diets containing a faba bean (*Vicia faba* L.) nonstarch polysaccharide fraction
- Salinas F, De Espinosa VM, Osorio E, Lozano M// Univ Extremadura, Fac Ciencias, Dept Quim Analit, E-06071 Badajoz, Spain  
*Rev Espan Cien Tecnol Aliment* 1994 34 (4) 441  
Determination of mineral elements in honey from different floral origins by flow injection analysis coupled to atomic spectroscopy (Spanish, English Abstract)
- Saraswati R, Watters RL// NIST, Div Inorgan Analyt Res, Chem Sci & Technol Lab, Gaithersburg, Md 20899, USA  
*Talanta* 1994 41 (10) 1785  
Determination of arsenic and selenium in spinach and tomato leaves reference materials using flow injection and atomic absorption spectrometry
- Soares ME, Bastos ML, Ferreira MA// Univ Oporto, Fac Pharm, Toxicol Lab, Rua Anibal Cunha 164, P-4000 Oporto, Portugal  
*J Anal Atom Spectrom* 1994 9 (11) 1269  
Determination of total chromium and chromium(VI) in animal feeds by electrothermal atomic absorption spectrometry
- Walker VR, Sutton RAL, Meirav O, Sossi V, Johnson R, Klein J, Fink D, Middleton R// Vancouver Gen Hosp, Dept Med, Div Nephrol, 910 West 10th Ave, Vancouver, Brit Columbia, Canada V5Z 4E3  
*Clin Invest Med* 1994 17 (5) 420  
Tissue disposition of <sup>26</sup>Al in rats measured by accelerator mass spectrometry
- Zhao CQ, Reches M, Depalo D, St Germain DL, Engelberg-Kulka H\*// \*Hebrew Univ Jerusalem, Hadassah Med Sch, Dept Biol Molec, IL-91120 Jerusalem, Israel  
*Gene* 1994 148 (2) 351  
A recombinant DNA bio-assay for selenium in blood
- ## 8 DRUG, BIOCIDES & PROCESSING RESIDUES
- Barker GA// MAFF, FDL, Barrack Rd, Weymouth DT4 8UB, Dorset, England  
*Aquaculture* 1994 176 (1) 83  
Detection of 4-quinolone residues in rainbow trout (*Oncorhynchus mykiss* Walbaum) muscle using a bio-assay
- Barrio CS, Asensio JS\*, Bernal JG// \*Univ La Rioja, Dept Chem Analyt Chem, E-26001 Logrono, Spain  
*Chromatographia* 1994 39 (5-6) 320  
GC-NPD investigation of the recovery of organonitrogen and organophosphorus pesticides from apple samples: The effect of the extraction solvent
- Bencsath FA, Plakas SM, Long AR// US FDA, Gulf Coast Res Lab, POB 158, Dauphin Isl, Al 36528, USA  
*Biol Mass Spectrom* 1994 23 (11) 665  
Optimization of the analytical performance of the magnetic sector mass spectrometer for the identification of residual chloramphenicol in shrimp
- Ehret-Henry J, Ducruet V, Luciani A, Feigenbaum A// INRA, Nutr & Secur Alimentaire Lab, Domaine Vilvert, F-78350 Jouy en Josas, France  
*J Food Sci* 1994 59 (5) 990  
Styrene and ethylbenzene migration from polystyrene into dairy products by

## dynamic purge-and-trap gas chromatography

Giovanardi C, Barbieri L, Tantillo MG// USL 16 Modena, Serv Vet Lab, Piazza Bradolini 6, Castelnuovo Rangone, Italy  
*Ind Aliment* 1994 33 (329) 828

Determination of sulfonamide residues in raw hams (Italian, English Abstract)

Hirahara Y, Narita M, Okamoto K, Miyoshi T, Miyata M, Koiguchi S, Hasegawa M, Kamakura K, Yamana T, Tonogai Y// Kobe Quarantine Stn, Ctr Inspect Imported Food & Infect Dis, 1-1 Toyahama cho, Kyougo ku, Kobe 652, Japan  
*J Food Hyg Soc Jpn* 1994 35 (5) 517

Simple and rapid simultaneous determination of various pesticides of polished rice by gas chromatography (Japanese, English Abstract)

Hooijerink H, Schilt R, Van Bennekom EO, Huf FA// State Inst Qual Control Agr Prod, Bornsesteeg 45, POB 230, 6700 AE Wageningen, The Netherlands  
*J Chromatogr B-Biomed Appl* 1994 660 (2) 303

Determination of  $\beta$ -sympathomimetics in liver and urine by immunoaffinity chromatography and gas chromatography-mass selective detection

Hormazabal V, Yndestad M// Norwegian Coll Vet Med, Div Food Hyg, POB 8146 Dep, N-0033 Oslo 1, Norway  
*J Liq Chromatogr* 1994 17 (17) 3775

Rapid assay for monitoring residues of anrofloxacin in milk and meat tissues by HPLC

Iosifidou E, Shearan P, O'Keefe M// Aristotelian Univ Thessaloniki, Sch Vet Med, Dept Food Hyg & Technol, GR-54006 Thessaloniki, Greece  
*Analyst* 1994 119 (10) 2227

Application of the matrix solid phase dispersion technique for the determination of ivermectin residues in fish muscle tissue

Kawasaki M, Fukuhara K, Uchiyama S// Hatano Res Inst Food & Drug Safety Ctr, 729-5 Ochiai, Hadano, Kanagawa 257, Japan  
*J Food Hyg Soc Jpn* 1994 35 (5) 479

Gas chromatographic/mass spectrometric (GC/MS) screening of pesticides (Japanese, English Abstract)

Kingston DW, Henry MA, Aldrin KJ, Pryde SD// Nthn Michigan Univ, Dept Chem, Marquette, Mi 49855, USA  
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Kiridena W, Poole SK, Poole CF// Wayne State Univ, Dept Chem, Detroit, Mi 48202, USA  
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Matthaus B, Wieszorek C, Eichner K// \*Inst Lebensmittelchem Munster, Piusallee 7, D-48147 Munster, FRG  
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Nagayama T, Kobayashi M, Shioda H, Morino M, Ito M, Tamura Y// Tokyo Metropolitan Res Lab Publ Hlth, 3-24-1 Hyakunin cho, Shinjuku ku, Tokyo 169, Japan  
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Rietveld R, Quirijns J// \*TNO, Nutr & Food Res, POB 360, 3700 AJ Zeist, The Netherlands  
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Samuelsen OB// Inst Marine Res, Dept Aquaculture, POB 1870, Strandgaten 229, N-5024 Bergen, Norway  
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Schachterle S, Brittain RD, Mills JD// Varian Chromatog Syst, 2700 Mitchell Dr, Walnut Creek, Ca 94598, USA  
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Straub R, Linder M, Voyksner RD// \*Res Triangle Inst, POB 12194, Res Triangle Pk, NC 27709, USA  
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Sugita T, Kawamura Y, Yamada T// Natl Inst Hlth Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan  
*J Food Hyg Soc Jpn* 1994 35 (5) 510

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Usleber E, Hensler E, Dotsch K, Martbauer E, Terplan G// Univ Munich, Fak Tierarztlche, Lehrstuhl Hyg & Technol Milch, Schellingstr 10, D-80799 Munich, FRG  
*Arch Lebensmittelhyg* 1994 45 (4) 80

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Van Vyncht G, Gaspar P, De Pauw E, Maghuin-Rogister G// Univ Liege, Fac Vet Med, Anal Foodstuffs Anim Origin Lab, B-42, B-4000 Liege, Belgium  
*J Chromatogr A* 1994 683 (1) 67

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Williams CS, Eastoe BV, Slaiding IR, Walker MD// BRF Int, Redhill RH1 4HY, Surrey, England  
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Yoshida K, Kondon F// Miyazaki Univ, Fac Agr, Dept Vet Publ Hlth, Miyazaki 88921, Japan  
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Yu KN, Mao SY// City Polytech Hong Kong, Dept Phys & Mat Phys, Kowloon, Hong Kong  
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Draisci R, Croci L\*, Giannetti L, Cozzi L, Lucentini L, De Medici D, Stacchini A// \*Ist Super Sanita, Reparto Assitivi Contaminanti & Alimenti Conserva, Viale Regina Elena 299, I-00161 Rome, Italy  
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Harms J, Radau B, Kruger E// Forschungsinst Qualitätssicherung Versuchs, & Lehranstalt Brauerei Berlin, Seestr 13, D-13353 Berlin, FRG  
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Hsu KH, Chu FS// \*Univ Wisconsin, Food Res Inst, 1925 Willow Dr, Madison, Wi 53706, USA  
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Stanker LH, Kamps-Holtzapfle C, Friedman M// USDA ARS, Food Anim Protect Res Lab, Rte 5, Box 810, College Stn, Tx 77845, USA  
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Casabianca H, Graff JB// CNRS, Serv Cent Anal, BP 22, F-69390 Vernaison, France

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Hashim L, Chaveron H// Univ Technol Compiègne, Biophysicochim & Technol Alimentaires Lab, BP 649, F-60206 Compiègne, France

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Moio L, Schlich P, Etievant P// Univ Napoli, Fac Agr, Inst Ind Agr, I-80055 Portici, Italy

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Portela MJ, Barrio RJ\*, Goicolea MA, De Balugera ZG// \*Univ Basque Country, Fac Pharm, Dept Analyt Chem, UPV EHU, E-01007 Vitoria Gasteiz, Spain

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Ruther J, Baltes W\*// \*Tech Univ Berlin, Inst Food Chem, Gustav Meyer Allee 25, D-13355 Berlin, FRG

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Specht K, Baltes W\*// Tech Univ Berlin, Inst Food Chem, Gustav Meyer Allee 25, D-13355 Berlin, FRG

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Tambe AS, Biswas SS, Zubaidha PK// Natl Chem Lab, Div Technol, Poona 411008 Maharashtra, India

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Fernandez-Garcia E, McGregor JU// CSIC, Inst Prod Lacteos Asturias, Carretera Infiesto s/n, Ap Correos 85, E-33300 Villaviciosa, Spain

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Bartle CM// Inst Geol & Nucl Sci Ltd, POB 31 312, Lower Hutt, New Zealand

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Girard F, Boyaval P// Inst Tech Gruyere, 73 rue St Brieuc, BP 6224, F-35062 Rennes, France

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Kirton AH, Mercer GJK, Duganzich DM, Uljee AE// Ruakura Agr Ctr, Private Bag 3123, Hamilton, New Zealand

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Liu Z, Lirette A, Fairfull RW, McBride BW\*// \*Univ Guelph, Dept Anim & Poultry Sci, Guelph, Ontario, Canada N1G 2W1

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Mussmann T, Schmitten F, Jungst H, Tholen E, Schepers KH// Rhein Friedrich Wilhelms Univ Bonn, Inst Tierzuchtswissensch, Endericher Allee 15, D-53115 Bonn, FRG

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Rossmann W, Bauer F// Vet Med Univ Vienna, Inst Fleischhyg Fleischtechnol & Lebensmittelkund, Linke Bahngasse 11, A-1030 Vienna, Austria

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Wang YX, Wilkie MP, Heigenhauser GJF, Wood CM// McMaster Univ, Dept Biol, Hamilton, Ontario, Canada L8S 4K1

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Benoteau G, Reynolds AG// Ecole Super Agr Angers, F-49007 Angers, France

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Bijnen FGC, De Vries HSM, Harren FJM, Reuss J// Catholic Univ Nijmegen, Dept Molec & Laser Phys, 6525 ED Nijmegen, The Netherlands

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Gao L, Mazza G\*// \*Agr & Agrifood Canada, Res Ctr, Food Res Program, Summerland, Brit Columbia, Canada V0H 1Z0

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Ko HL, Henry RJ// Univ Queensland, Queensland Agr Biotechnol Ctr, Gehrman Labs, St Lucia, Qld 4072, Australia

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Lau OW, Luk SF// Chinese Univ Hong Kong, Dept Chem, Sha Tin, Hong Kong

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McMurrough I, Baert T// Guinness Brewing Worldwide Res Ctr, St James' Gate, Dublin 8, Ireland

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McMurtrey KD, Minn J, Pobanz M, Schultz TP// Univ Sthn Mississippi, Dept Chem & Biochem, Box 5043, Hattiesburg, Ms 39406, USA

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Mellon FA, Waldron KW, Selvendran RR, Galletti GC\*// \*CCF/CNR, via F.Re 8, I-40126 Bologna, Italy

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