

# Bibliography of analytical, nutritional and clinical methods

(Four weeks journals - Search completed at 6th Sept 1995)

## 1 BOOKS, REVIEWS & SYMPOSIA

- OCL-*OI Corps Gras Lipides* 1995 2 (2) 112  
Special section: Methods, analytical and standardization (French)
- Dijksterhuis G// ID DLO, Inst Anim Sci & Hlth, Sensory Lab, POB 15, 7360 AA Beekbergen, The Netherlands  
*Trends Food Sci Technol* 1995 6 (6) 206  
Multivariate data analysis in sensory and consumer science: An overview of developments (Review)
- Foster LH, Sumar S// Sth Bank Univ, Sch Appl Sci, Nutr Res Ctr, London SE1 0AA, England  
*Food Chem* 1995 53 (4) 453  
Methods of analysis used for the determination of selenium in milk and infant formulae: A review
- Horie M, Nakazawa H// Saitama Prefectural Inst Publ Hlth, 639-1 Kamio-kubo, Urawa, Saitama 338, Japan  
*J Food Hyg Soc Jpn* 1995 36 (3) 329  
Current legal regulations of veterinary drugs and their residual analysis (Review) (Japanese, English Abstract)
- McArdle HJ// Univ Dundee, Ninewells Hosp & Med Sch, Dept Child Hlth, Dundee DD1 9SY, Scotland  
*Food Chem* 1995 54 (1) 79  
The metabolism of copper during pregnancy: A review

## 2 GENERAL

- Barnes KW// Perkin Elmer Corp, 761 Main Ave, Norwalk, Ct 06859, USA  
*Food Technol* 1995 49 (6) 48  
An introduction to food analysis techniques
- Canalón PF// Florida Dept Citrus, Sci Res Dept, 700 Expt Stn Rd, Lake Alfred, Fl 33850, USA  
*Food Technol* 1995 49 (6) 52  
Capillary electrophoresis: A useful technique for food analysis
- De Bievre P, Kramer G, Verbruggen A, Pauwels J// Commiss Europ Commun, Joint Res Ctr, Inst Ref Mat & Measurement, B-2440 Geel, Belgium  
*Fresenius J Anal Chem* 1995 352 (1-2) 11  
What is new in certified reference materials and measurements at IRMM?
- Flajnik CM// Varian Opt Spect, 201 Hansen Ct, Wood Dale, Il 60191, USA  
*Food Technol* 1995 49 (6) 59  
Validating analyses for nutrition labeling
- Iyengar GV, Wolf WR// NIST, Stand Ref Mat Program, Bldg 235, Gaithersburg, Md 20899, USA  
*Fresenius J Anal Chem* 1995 352 (1-2) 35  
Global perspectives for secondary reference materials for analysis of food and related biological samples
- Kalab M, Allan-Wojtas P, Miller SS// Govt Canada, Ctr Food & Anim Res, Dept Agr & AgriFood Canada, Ottawa, Ontario, Canada K1A 0C6  
*Trends Food Sci Technol* 1995 6 (6) 177  
Microscopy and other imaging techniques in food structure analysis
- Mar MH, Ridky TW, Garner SC, Zeisel SH// \*Univ Nth Carolina, Sch Publ Hlth, Dept Nutr, CB 7400, Chapel Hill, NC 27599, USA  
*J Nutr Biochem* 1995 6 (7) 392  
A method for the determination of betaine in tissues using high performance liquid chromatography
- Nagaraja KV, Vibhakar S, Rao SNR, Rani U// Cent Food Technol Res

- Inst, Analyt Qual Control Lab, Mysore 570013, Karnataka, India  
*Fresenius J Anal Chem* 1995 352 (1-2) 33  
Reference materials for food analysis laboratories in India
- Wolf WR, Andrews KW// USDA ARS, Beltsville Food Compos Lab, Beltsville, Md 20705, USA  
*Fresenius J Anal Chem* 1995 352 (1-2) 73  
A system for defining reference materials applicable to all food matrices

## 3 AMINO ACIDS, PROTEINS & ENZYMES

- Hurst PL, Sinclair BK, Eason JR// New Zealand Inst Crop & Food Res, Levin Res Ctr, Private Bag 4005, Levin, New Zealand  
*Food Chem* 1995 53 (4) 467  
Amino acids interfere with the ninhydrin assay for asparagine
- Leonil J, Molle D, Gaucheron F, Arpino P, Guenet P, Maubois JL// INRA, Lab Rech Technol Laitiere, 65 rue St Brieuc, F-35042 Rennes, France  
*Lait* 1995 75 (3) 193  
Analysis of major bovine milk proteins by on-line high-performance liquid chromatography and electrospray ionization mass spectrometry
- Michalke B// GSF, Environm & Hlth Res Ctr, Inst Ecol Chem, Ingolstadt Landstr 1, D-85764 Oberschleissheim, Germany  
*Fresenius J Anal Chem* 1995 351 (7) 670  
Capillary electrophoresis methods for a clear identification of seleno amino acids in complex matrices like human milk
- Montagne P, Cuilliere ML, Marchal E, El-Bari N, Montagne M, Benali M, Faure G, Duheille J, Humbert G, Linden G *et al*// INSERM, Paris, France  
*Lait* 1995 75 (3) 211  
Application of microparticle-enhanced nephelometric immunoassays of  $\alpha$ -,  $\beta$ - and  $\kappa$ -caseins to evaluate quality of milk, from the production to the valorization in cheese industry (French, English Abstract)
- Nagano T, Akasaka T, Nishinari K// Fuji Oil Co Ltd, Cent Res Inst, 4-3 Kinunodai, Tsukuba, Ibaraki 30024, Japan  
*Food Hydrocolloid* 1995 9 (2) 83  
Study on the heat-induced conformational changes of  $\beta$ -conglycinin by FTIR and CD analysis
- Proudman JA, Krishnan KA, Maruyama K// USDA ARS, Germplasm & Gamete Physiol Lab, Beltsville, Md 20705, USA  
*Poultry Sci* 1995 74 (7) 1201  
Ontogeny of pituitary and serum growth hormone in growing turkeys as measured by radioimmunoassay and radioreceptor assay
- Sabulal B, Kishore N// \*Indian Inst Technol, Dept Chem, Bombay 400076, Maharashtra, India  
*J Chem Soc-Faraday Trans* 1995 91 (14) 2101  
Differential scanning calorimetric study of the interactions of some stabilizing amino acids and oligopeptides with hen egg white lysozyme
- Steinmetz J, Tarallo P, Fournier B, Caces E, Siest G// Ctr Med Prevent, CNRS, URA 597, 1 Ave Doyen Jacques Parisot, F-54501 Vandoeuvre les Nancy, France  
*Eur J Clin Chem Clin Biochem* 1995 33 (6) 337  
Reference limits of apolipoprotein A-I and apolipoprotein B using an IFCC standardized immunonephelometric method
- Strobl S, Muhlhahn P, Bernstein R, Wiltschek R, Maskos K, Wunderlich M, Huber R, Glockshuber R\*, Holak TA// \*ETH Honggerberg, Inst Molek Biol & Biophys, CH-8093 Zurich, Switzerland  
*Biochemistry-USA* 1995 34 (26) 8281  
Determination of the three-dimensional structure of the bifunctional  $\alpha$ -amylase/trypsin inhibitor from ragi seeds by NMR spectroscopy

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.

Tertov VV, Sobenin IA, Orekhov AN// Cardiol Res Ctr, Inst Exptl Cardiol, Moscow 121552, Russia  
*Clin Chem* 1995 **41** (7) 1018  
Modified (desialylated) low-density lipoprotein measured in serum by lectin-sorbent assay

#### 4 CARBOHYDRATES

Matthaus B, Losing R, Fiebig HJ// Inst Chem & Phys Fette Bundesanstalt Getreide Kar, Postfach 1705, D-48006 Munster, Germany  
*J High Res Chromatogr* 1995 **18** (4) 267  
Determination of phytic acid and its degradation products in extracts of rape seeds and rapeseed meal

Verette E, Qian F, Mangani F// Gilson Med Electr France SA, 72 rue Gambetta, BP 45, F-95400 Villiers le Bel, France  
*J Chromatogr A* 1995 **705** (2) 195

On-line dialysis with high-performance liquid chromatography for the automated preparation and analysis of sugars and organic acids in foods and beverages

Yui T, Imada K, Shibuya N\*, Ogawa K// \*Natl Inst Agrobiol Resources, Dept Cell Biol, Tsukuba, Ibaraki 305, Japan  
*Biosci Biotechnol Biochem* 1995 **59** (6) 965  
Conformation of an arabinoxylan isolated from the rice endosperm cell wall by X-ray diffraction and a conformational analysis

#### 5 LIPIDS

Adenier H, Chaveron H// Univ Technol Compeigne, Lab Biophys Chim & Technol Alimentaires, BP 649, F-60200 Compeigne, France  
*OCL-Ol Corps Gras Lipides* 1995 **2** (3) 237

Physical behavior of binary mixtures of cacao butter and milk fats, using pulsed nuclear magnetic resonance, isosolid and kinetic crystallization curves (French, English Abstract)

Das Neves HJC, Gaspar EMM// Univ Nova Lisboa, Fac Ciencias & Tecnol, Dept Quim, P-2825 Monte de Caparica, Portugal  
*J High Res Chromatogr* 1995 **18** (5) 299  
HRGC-MS and HPLC-MS Identification of new ketosterols in an extract of wheat straw

Gottschling HD, Reuter W, Ronquist G, Steinmetz A, Hattemer A\*// \*Boehringer Mannheim GmbH, Diagnost Evaluat, Sandhofer Str 116, D-68305 Mannheim, Germany  
*Eur J Clin Chem Clin Biochem* 1995 **33** (6) 373  
Multicentre evaluation of a non-wipe system for the rapid determination of total cholesterol in capillary blood, Accutrend® Cholesterol on Accutrend® GC

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 Chromatogr A* 1995 **705** (2) 289  
Comparison of three methods for the determination of oxysterols in spray-dried egg

Jialal I, Hirany SV, Devaraj S, Sherwood TA// Univ Texas, SW Med Ctr, Dept Pathol, 5323 Harry Hines Blvd, Dallas, Tx 75235, USA  
*Amer J Clin Pathol* 1995 **104** (1) 76  
Comparison of an immunoprecipitation method for direct measurement of LDL-cholesterol with  $\beta$ -quantification (ultracentrifugation)

Nouri-Sorkhabi MH, Sullivan DR, Kuchel PW\*// \*Univ Sydney, Dept Biochem, Sydney, NSW 2006, Australia  
*Clin Chim Acta* 1995 **237** (1-2) 25  
<sup>13</sup>C NMR investigation of cholesterol esterification rate in human whole blood

Sasamoto H, Maeda M, Tsuji A// Teikoku Hormone Mfg Co Ltd, Diagnost Res Dept, Takatu ku, 1604 Shimosakunobe, Kawasaki, Kanagawa 213, Japan  
*Anal Chim Acta* 1995 **310** (2) 347  
Chemiluminescent enzymatic assay for cholesterol in serum using lucigenin

#### 6 VITAMINS & CO-FACTORS

Blanco M, Coello J, Iturriaga H, MasPOCH S, Gomez-Cotin T, Alaoui-Ismaïli S, Rovira E// Univ Autonoma Barcelona, Dept Quim, Unidad Quim Analit, E-08193 Barcelona, Spain  
*Fresenius J Anal Chem* 1995 **351** (2-3) 315

Simultaneous spectrophotometric determination of fat-soluble vitamins in multivitamin pharmaceutical preparations

Careri M, Lugari MT, Mangia A, Manini P, Spagnoli S// Univ Parma, Dipt Chim Gen & Inorgan Chim Analyt Chim, I-43100 Parma, Italy  
*Fresenius J Anal Chem* 1995 **351** (8) 768  
Identification of vitamins A, D and E by particle beam liquid chromatography/mass spectrometry

Dosunmu MI, Johnson EC// Univ Calabar, Dept Chem, Calabar, Nigeria  
*Food Chem* 1995 **54** (1) 67  
Chemical evaluation of the nutritive value and changes in ascorbic acid content during storage of the fruit of 'bitter kola' (*Garcinia kola*)

Esteve MJ, Farre R\*, Frigola A// \*Univ Valencia, Fac Pharm, Area Nutr & Food Chem, Avda Vicent Andres Estelles, E-46100 Burjassot, Spain  
*Fresenius J Anal Chem* 1995 **351** (8) 804  
Determination of ascorbic acid in asparagus by differential pulse polarography

Every D, Gilpin MJ, Larsen NG// New Zealand Inst Crop & Food Res, Grain Foods Res Unit, Private Bag 4704, Christchurch, New Zealand  
*J Cereal Sci* 1995 **21** (3) 231  
Continuous spectrophotometric assay and properties of ascorbic acid oxidising factors in wheat

Got L, Gousson T\*, Delacoux E// \*Hop Beaujon, Serv Biochim, 100 Blvd Gen Leclerc, F-92110 Clichy, France  
*J Chromatogr B-Biomed Appl* 1995 **668** (2) 233  
Simultaneous determination of retinyl esters and retinol in human livers by reversed-phase high-performance liquid chromatography

Hart DJ, Scott KJ// Inst Food Res, Norwich Lab, Norwich Res Pk, Colney, Norwich NR4 7UA, England  
*Food Chem* 1995 **54** (1) 101  
Development and evaluation of an HPLC method for the analysis of carotenoids in foods, and the measurement of the carotenoid content of vegetables and fruits commonly consumed in the UK

Jain A, Chaurasia A, Verma KK\*// \*Rani Durgavati Univ, Dept Chem, Jabalpur 482001, Madhya Pradesh, India  
*Talanta* 1995 **42** (6) 779  
Determination of ascorbic acid in soft drinks, preserved fruit juices and pharmaceuticals by flow injection spectrophotometry: Matrix absorbance correction by treatment with sodium hydroxide

James D// Univ Wales Hosp, Dept Med Biochem, Cardiff CF4 4XW, Wales  
*Brit Med J* 1995 **311** (6997) 123  
Vitamin A deficiency: Measurements of serum retinol may be misleading (Letter)

Schweigert FJ, Rosival I, Rambeck WA, Gropp J// Univ Leipzig, Fac Vet, Dept Physiol, Semmelweisstr 2, D-04103 Leipzig, Germany  
*Int J Vitam Nutr Res* 1995 **65** (2) 95  
Plasma transport and tissue distribution of [<sup>14</sup>C]β-carotene and [<sup>3</sup>H]retinol administered orally to pigs

Van Breemen RB// Univ Illinois, Coll Pharm, Dept Med Chem & Pharmacognosy, 833 Sth Wood St, M/C 781, Chicago, IL 60612, USA  
*Anal Chem* 1995 **67** (13) 2004  
Electrospray liquid chromatography-mass spectrometry of carotenoids

Vernon SA// Univ Nottingham Hosp, Queens Med Ctr, Nottingham NG7 2UH, England  
*Brit Med J* 1995 **311** (6997) 124  
Vitamin A deficiency: Use non-invasive dark adaptometry to screen children and adolescents (Letter)

#### 7 TRACE ELEMENTS & MINERALS

Anderson DL, Cunningham WC// US FDA, Elemental Res Branch HFS338, 200 C St SW, Washington, DC 20204, USA  
*J Radioanal Nucl Chem Art* 1995 **194** (2) 351  
Maple syrup analysis for <sup>137</sup>Cs, K and B, using a low-background counting system and PGAA

Anderson DL, Downing RG, Iyengar GV// Address as above.  
*Fresenius J Anal Chem* 1995 **352** (1-2) 107  
Trace elements in food reference materials: Compositional and analytical perspectives

Baratta EJ// US FDA, Winchester, Ma 01890, USA  
*J Radioanal Nucl Chem Art* 1995 **194** (1) 157  
Determination of <sup>239/240</sup>Pu in fish in low-level radioactive ocean waste dump sites

Calvo CP, Barrera PB\*, Barrera AB// \*Fac Chem Santiago de Com-

- postela, Dept Analyt Chem Nutr & Bromatol, E-15706 Santiago de Compostela, Spain  
*Anal Chim Acta* 1995 **310** (1) 189  
 Determination of molybdenum in human urine by electrothermal atomization atomic absorption spectrometry
- Deaker M, Maher W// Univ Canberra, Fac Sci Appl, Ctr Environm & Analyt Chem, POB 1, Belconnen, ACT 2616, Australia  
*J Anal Atom Spectrom* 1995 **10** (6) 423  
 Determination of selenium in seleno compounds and marine biological tissues using electrothermal atomization atomic absorption spectrometry
- Fernandes SMV, Rangel AOSS, Lima JLEC// Univ Catolica Portuguesa, Escola Super Biotecnol, Rua Dr Antonio Bernardino Almeida, P-4200 Oporto, Portugal  
*J Inst Brew* 1995 **101** (4) 281  
 Colorimetric determination of iron in beer by flow injection analysis using the merging zones technique
- Freitas MC// Inst Ciencias & Engr Nucl, Dept Quim, P-2686 Sacavem, Portugal  
*Fresenius J Anal Chem* 1995 **352** (1-2) 58  
 Elemental concentrations in the spinach reference material determined by  $K_0$ -based INAA
- Gottlicher U, Siegfried R, Birke H// Regierungsprasidium Darmstadt, Dezernat V39E, D-64283 Darmstadt, Germany  
*Fresenius J Anal Chem* 1995 **352** (3-4) 398  
 HPLC analysis of metal chelating agents in micronutrients
- Hernandez O, Jimenez AI, Jimenez F\*, Arias JJ// \*Univ La Laguna, Dept Analyt Chem Food & Toxicol, E-38204 La Laguna, Spain  
*Anal Chim Acta* 1995 **310** (1) 53  
 Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method
- Ising H, Bertschat F, Gunther T, Jeremias E, Jeremias A// Inst Wasser Boden & Lufthyg, Corrensplatz 1, D-14195 Berlin, Germany  
*Eur J Clin Chem Clin Biochem* 1995 **33** (6) 365  
 Measurement of free magnesium in blood, serum and plasma with an ion-sensitive electrode
- Karpiuk M, Politowicz M, Stryjewska E\*, Rubel S// \*Warsaw Univ, Dept Chem, Pasteura 1, PL-02093 Warsaw, Poland  
*Fresenius J Anal Chem* 1995 **351** (7) 693  
 Adsorptive voltammetry for the determination of trace amounts of aluminium in blood serum derived products
- Kucera J, Mader P, Miholova D, Cibulka J, Faltejssek J, Kordik D// Acad Sci Czech Republ, Inst Nucl Phys, CR-25068 Prague, Czech Republic  
*Fresenius J Anal Chem* 1995 **352** (1-2) 66  
 Preparation of the bovine kidney and bovine muscle reference materials and the certification of element contents from interlaboratory comparisons
- Li YJ, Wahdat F, Neeb R\*// \*Univ Mainz, Inst Anorgan Chem & Analyt Chem, Johann Joachim Becher Weg 24, D-55099 Mainz, Germany  
*Fresenius J Anal Chem* 1995 **351** (7) 678  
 Digestion-free determination of heavy metals (Pb, Cd, Cu) in honey using anodic stripping differential pulse voltammetry and potentiometric stripping analysis
- Malenchenko AF, Bazanova NN, Zhuk IV, Lomonosova EM, Kievetz MK, Boulyga SF, Tzekhanovich IA// Byelarusian Acad Sci, Inst Radiol Problems, Minsk, Byelarus  
*Radiat Meas* 1995 **25** (1-4) 417  
 Use of solid state nuclear track detectors for determination of fissile radionuclides in hair of inhabitants of Belarus
- Mercy G, Nyagah G, Murungi JI// Kenyatta Univ, Dept Chem, POB 43844, Nairobi, Kenya  
*J Environ Sci Health-A Environ* 1995 **30** (6) 1145  
 AAS determination of aluminium levels in tea and other plants grown in the same locality
- Murphy KE, Paulsen PJ// NIST, Gaithersburg, Md 20899, USA  
*Fresenius J Anal Chem* 1995 **352** (1-2) 203  
 The determination of lead in blood using isotope dilution inductively coupled plasma mass spectrometry
- Pfaff G, Georg T// Inst Deutsch Ernährungsforsch, Arthur Scheunert Allee 114-116, D-14558 Bergholz Rehbrucke, Germany  
*Z Ernahrungswiss* 1995 **34** (2) 131  
 Assessment of individual iodine intake by the adult population in the Potsdam region on the basis of sea fish and iodized salt consumption (German, English Abstract)
- Salvato N// Plasmon Dietet Alimentari, Via Cadolini 26, I-20137 Milan, Italy  
*Ind Aliment* 1995 **34** (337) 504  
 Analysis of lead and cadmium in foodstuff. Comparison between two of the most advanced analytical methods: ETA-AAS Zeeman and ICP-MS (Italian, English Abstract)
- Schramel P, Wendler I// GSF, Environm Hlth Res Ctr, Inst Ecol Chem, D-85758 Oberschleissheim, Germany  
*Fresenius J Anal Chem* 1995 **351** (6) 567  
 Molybdenum determination in human serum (plasma) by ICP-MS coupled to graphite furnace
- Shirasaki T, Hiraki K// Hitachi Instruments Engr Co Ltd, Inst Technores, 882 Ichige, Hitachinaka, Ibaraki 312, Japan  
*Bunseki Kagaku* 1995 **44** (7) 543  
 Determination of arsenic and selenium in biological samples by microwave-induced plasma mass spectrometry (Japanese, English Abstract)
- Sohrabi M, Mirzaee H, Hosseini T// Atom Energy Org Iran, Natl Radiat Protect Dept, POB 14155-4494, Tehran, Iran  
*Radiat Meas* 1995 **25** (1-4) 623  
 Determination of  $^{226}\text{Ra}$  in food samples by a new method using polycarbonate detectors
- Ursinyova M, Hladikova V, Sovcikova E// Inst Prevent & Clin Med, Limbova 14, Bratislava 83301, Slovakia  
*Chem Listy* 1995 **89** (6) 388  
 Determination of lead in whole blood using atomic absorption spectrometry (Czech, English Abstract)
- Veillon C, Patterson KY// USDA, Beltsville Human Nutr Res Ctr, Bldg 307, Rm 226A, Beltsville, Md 20705, USA  
*Fresenius J Anal Chem* 1995 **352** (1-2) 77  
 Selenium, chromium and zinc content of proposed SRM 1846 infant formula
- Vinas P, Capillo N, Garcia IL, Cordoba MH\*// \*Univ Murcia, Fac Chem, Dept Analyt Chem, E-30071 Murcia, Spain  
*Fresenius J Anal Chem* 1995 **351** (7) 695  
 Determination of aluminium in chewing gum samples using electrothermal atomic-absorption spectrometry and slurry sample introduction
- Wahdat F, Hinkel S, Neeb R\*// \*Univ Mainz, Inst Anorgan Chem & Analyt Chem, Postfach 3980, D-55099 Mainz, Germany  
*Fresenius J Anal Chem* 1995 **352** (3-4) 393  
 Direct inverse voltammetric determination Pb, Co and Cd in some edible oils after solubilization
- Wang CY, Zhou YM, Yang WZ// Yunnan Univ, Dept Chem, Kunming 650091, Peoples Rep China  
*Microchem J* 1995 **51** (3) 374  
 Fluoride electrode-coupled minicomputer for determination of fluoride in human hair
- Ybanez N, Velez D, Tejedor W, Montoro R// CSIC, Inst Agroquim & Tecnol Alimentos, Jaime Roig 11, E-46010 Valencia, Spain  
*J Anal Atom Spectrom* 1995 **10** (6) 459  
 Optimization of the extraction, clean-up and determination of arsenobetaine in manufactured seafood products by coupling liquid chromatography with inductively coupled plasma atomic emission spectrometry
- Zeisler R, Becker DA, Gills TE// Int Atom Energy Agcy, A-1400 Vienna, Austria  
*Fresenius J Anal Chem* 1995 **352** (1-2) 111  
 Certifying the chemical composition of a biological material - A case study
- Zhang PF, Allen JC\*// \*Nth Carolina State Univ, Dept Food Sci, Box 7624, Raleigh, NC 27695, USA  
*J Nutr* 1995 **125** (7) 1904  
 A novel dialysis procedure measuring free  $\text{Zn}^{2+}$  in bovine milk and plasma
- Zhuk LI, Gafitulina DS, Kist AA, Ashurov MK// Ukbek Acad Sci, Inst Nucl Phys, Tashkent 702132, Uzbekistan  
*Radiat Meas* 1995 **25** (1-4) 393  
 Activation autoradiographic study of elemental distribution in human hair

## 8 DRUG, BIOCIDES & PROCESSING RESIDUES

- Conforti FD, Giuffrida ML// Virginia Polytech Inst & State Univ, Dept Human Nutr & Foods, Rm 325 Wallace Hall, Blacksburg, Va 24061, USA  
*Poultry Sci* 1995 **74** (7) 1224  
 Determination of oxidative changes in precooked chicken parts by non-heme iron content and thiobarbituric acid value
- Friedrichs K, Winkeler HD, Gerhards P// Chem Untersuchungsamt Stadt Bielefeld Oststr 55, D-33604 Bielefeld, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 **201** (1) 69  
 Determination of dithiocarbamate residues in foodstuff by headspace gas chromatography and flame photometric detection (German, English Abstract)
- Hietaniemi V, Kostamo A, Kumpulainen J, Pihlavan JM// Agr Res Ctr, Inst Food Res, SF-31600 Jokoininen, Finland

- Fresenius J Anal Chem* 1995 **352** (1-2) 40  
Preparation and testing for homogeneity of spiked strawberry and cabbage candidate reference materials
- Hermida-Ameijeiras A, Simal-Gandara J, Lopez-Hernandez J, Simal-Lozano J\*// \*Univ Santiago de Compostela, Fac Farm, Dept Quim Anal Nutr & Bromatol, Area Nutr & Bromatol, E-15706 Santiago de Compostela, Spain  
*Water Res* 1995 **29** (9) 2118  
Evaluation of the performance of a multiresidue gas chromatographic method for the determination of aliphatic hydrocarbons in mussels of Galicia (NW Spain)
- Hitchcock CHS// 2 Chudleigh Close, Bedford MK40 3AW, England  
*J Sci Food Agr* 1995 **68** (3) 319  
Determination of hydrogen in irradiated frozen chicken
- Jimenez JJ, Atienza J, Bernal JL// Serv Invest Agr, Junta Castilla & Leon, POB 172, E-47080 Valladolid, Spain  
*J High Res Chromatogr* 1995 **18** (6) 367  
Characterization of fluvalinate residues in honey by gas chromatography/atomic emission detection and gas chromatography/mass spectrometry
- Kurz J, Ballschmiter K\*// \*Univ Ulm, Analyt Chem & Umweltchem Abt, Albert-Einstein Allee 11, D-89069 Ulm, Germany  
*Fresenius J Anal Chem* 1995 **351** (1) 98  
Isomer-specific determination of 79 polychlorinated diphenyl ethers (PCDE) in cod liver oils, chlorophenols and in a fly ash
- Maier EA, Van Cleuvenbergen R, Kramer GN, Tuinstra LGMT, Pauwels J\*// \*Commiss European Communities, Joint Res Ctr, Inst Reference Mat & Measurements, B-2440 Geel, Belgium  
*Fresenius J Anal Chem* 1995 **352** (1-2) 179  
BCR (non-certified) reference materials for dioxins and furans in milk powder
- Marsch GA, Goldman EN, Fultz E, Shen NH, Turteltaub KW\*// \*Lawrence Livermore Natl Lab, Biol & Biotechnol Res Program, L-452, Livermore, Ca 94551, USA  
*Chem Res Toxicol* 1995 **8** (5) 659  
Heterogeneous DNA adduct formation *in vitro* by the acetylated food mutagen 2-(acetoxymino)-1-methyl-6-phenylimidazo[4,5-b]pyridine: A fluorescence spectroscopic study
- Moats WA, Anderson KL\*, Rushing JE, Wesen DP// \*Nth Carolina State Univ, Coll Vet Med, Dept Food Anim & Equine Med, Raleigh, NC 27606, USA  
*Amer J Vet Res* 1995 **56** (6) 795  
Comparison of a radioimmunoassay (CHARM II) test with high-performance liquid chromatography for detection of oxytetracycline residues in milk samples from lactating cattle
- Mukherjee I, Gopal M// Indian Agr Res Inst, Div Agr Chem, Agr Res Serv, New Delhi 110012, India  
*Fresenius J Anal Chem* 1995 **351** (6) 590  
Methodology for the estimation of chlorothalonil and its metabolite in mustard crop by gas liquid chromatography
- Nerin C, Tornes AR, Domeno C, Cacho J// Univ Zaragoza, Dept Quim Anal, E-50015 Zaragoza, Spain  
*Fresenius J Anal Chem* 1995 **352** (3-4) 364  
Determination of organochlorine pesticides in animal diet: A comparative study of clean-up procedures
- Schenck FJ, Wagner J// US FDA, Baltimore Dist, 900 Madison Ave, Baltimore, Md 21201, USA  
*Food Addit Contam* 1995 **12** (4) 535  
Screening procedure for organochlorine and organophosphorus pesticide residues in milk using matrix solid phase dispersion (MSPD) extraction and gas chromatographic determination
- Schwack W, Bruger B, Nyanzi S// Univ Karlsruhe, Inst Lebensmittelchem, Kaiserstr 12, D-76128 Karlsruhe, Germany  
*Fresenius J Anal Chem* 1995 **351** (2-3) 297  
Simultaneous differential pulse-polarographic determination of CS<sub>2</sub> and COS gases and its application in the analysis of dithiocarbamate fungicide residues in foods
- Ternes TA, Hany J, Baumann W, Nagel R// ESWE, Inst Wasserforsch & Wassertechnol, Sohnleinstr 158, D-65201 Wiesbaden, Germany  
*Fresenius J Anal Chem* 1995 **351** (8) 790  
Contributions to the analysis of organic xenobiotics in fish. I. A method for simultaneous determination of triazines, acetamides and lipophilic compounds in fish using GC/MS
- Tomsej T, Hajslova J// Dist Hyg Ctr, Bezrucova 10, CR-36021 Karlovy Vary, Czech Republic  
*J Chromatogr A* 1995 **704** (2) 513  
Determination of benzoylurea insecticides in apples by high-performance liquid chromatography
- Tsai CE, Kondo F\*, Ueyama Y, Azama J// Miyazaki Univ, Fac Agr, Dept Vet Publ Hlth, Miyazaki 88921, Japan  
*J Chromatogr Sci* 1995 **33** (7) 365  
Determination of sulfamethazine residue in chicken serum and egg by high-performance liquid chromatography with chemiluminescence detection
- Unglaub W, Ney G// Staatl Tierarztl, Untersuchungsamt Aulendorf, Lowenbreitestr 1820, D-88326 Aulendorf, Germany  
*Fleischwirtschaft* 1995 **75** (7) 896  
Examining residues for evidence of tranquilizers
- Ushijima K, Deguchi Y, Kikukawa K, Nomura T, Adachi T// Japan Food Res Labs, Osaka Branch, 3-1 Toyotsu cho, Suita, Osaka 564, Japan  
*J Food Hyg Soc Jpn* 1995 **36** (3) 360  
Analysis for residual 3-chloro-1,2-propanediol in seasonings after derivatization with phenylboronic acid (Japanese, English Abstract)

## 9 TOXINS

- Chadha RK, Lawrence JF, Ratnayake WMN// Hlth Canada, Hlth Protect Branch, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2  
*Food Addit Contam* 1995 **12** (4) 527  
Ion chromatographic determination of cyanide released from flaxseed under autohydrolysis conditions
- Kuhn I, Valenta H\*, Rohr K// \*Fed Agr Res Ctr Braunschweig Volkenrode, Inst Anim Nutr, Bundesalle 50, D-38116 Braunschweig, Germany  
*J Chromatogr B-Biomed Appl* 1995 **668** (2) 333  
Determination of ochratoxin A in bile of swine by high-performance liquid chromatography
- Ramana D, Capoor AK, Sashidhar RB\*, Bhat RV// \*Osmania Univ, Coll Sci, Dept Biochem, Hyderabad 500007, Andhra Pradesh, India  
*Fresenius J Anal Chem* 1995 **352** (1-2) 43  
Limitations in the use of horseradish peroxidase as an enzyme probe in the development of a homogeneous immunoassay for aflatoxin B<sub>1</sub>
- Scott PM, Kanhere SR// Dept Hlth & Welf, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2  
*Food Addit Contam* 1995 **12** (4) 591  
Determination of ochratoxin A in beer
- Serraz D, Brebant R, Bruneau S, Denoyel GA\*// \*Inst Pasteur Lyon, Unite Virol-Bacteriol, Ave Tony Garnier, F-69365 Lyon 07, France  
*Food Chem* 1995 **54** (1) 85  
The development of a monoclonal antibody-based ELISA for the determination of histamine in food: Application to fishery products and comparison with the HPLC assay
- Vieths S, Jankiewicz A, Wuthrich B, Baltus W// Paul Ehrlich Inst, Fed Agcy Sera & Vaccines, Allergen Extract Dev & Standardizat Lab, D-63225 Langen, Germany  
*Ann Allergy Asthma Immunol* 1995 **75** (1) 48  
Immunoblot study of IgE binding allergens in celery roots

## 10 ADDITIVES

- Agui ML, Reviejo AJ, Yanez-Sedeno P, Pingarron JM\*// \*Univ Complutense Madrid, Fac Chem, Dept Analyt Chem, E-28040 Madrid, Spain  
*Anal Chem* 1995 **67** (13) 2195  
Analytical applications of cylindrical carbon fiber microelectrodes. Simultaneous voltammetric determination of phenolic antioxidants in food
- Badr IHA, Meyerhoff ME\*, Hassan SSM// \*Univ Michigan, Dept Chem, Ann Arbor, Mi 48109, USA  
*Anal Chim Acta* 1995 **310** (2) 211  
Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II)
- Cornil V, Ooghe W, Sandra P// State Univ Ghent, Food Anal Lab, Harelbekestr 72, B-9000 Ghent, Belgium  
*J High Res Chromatogr* 1995 **18** (5) 286  
Detection of sugar addition to citrus juice by capillary GC
- Gromes R, Schnellbacher B, Siegl T, Vatter T// E Merck AG, Geschäftseinheit Forsch Reagenzien, Forsch Biochem, D-64271 Darmstadt, Germany  
*Deut Lebensm-Rundsch* 1995 **91** (6) 171  
Determination of aspartame levels in foodstuffs with a new enzymatic assay and HPLC (German, English Abstract)
- Ljunggren E, Karlberg B// Univ Stockholm, Dept Analyt Chem, S-10691 Stockholm, Sweden  
*J Autom Chem* 1995 **17** (3) 105  
Determination of total carbon dioxide in beer and soft drinks by gas diffusion and flow injection analysis

Mitsuhashi T// Hyogo Prefectural Inst Publ Hlth, Hyogo ku, 2-1-29 Arata cho, Kobe 652, Japan  
*J Food Hyg Soc Jpn* 1995 36 (3) 409  
 Improved gas chromatographic determination of total bromine in agricultural products (Japanese, English Abstract)

## 11 FLAVOURS & AROMAS

Camara M, Diez C, Torija E// Univ Complutense Madrid, Fac Farm, Dept Nutr & Bromatol II, Ciudad Univ s/n, E-28040 Madrid, Spain  
*Food Chem* 1995 54 (1) 93  
 Chemical characterization of pineapple juices and nectars. Principal components analysis

Casabianca H, Graff JB, Jame P, Perrucchiotti C, Chastrette M// CNRS, Serv Cent Anal, BP 22, F-69390 Vernaison, France  
*J High Res Chromatogr* 1995 18 (5) 279  
 Application of hyphenated techniques to the chromatographic authentication of flavors in food products and perfumes

Davis AL, Cai Y, Davies AP// Unilever Res Labs, Colworth House, Sharnbrook MK44 1LQ, Beds, England  
*Magn Reson Chem* 1995 33 (7) 549  
<sup>1</sup>H and <sup>13</sup>C NMR assignment of theaflavin, theaflavin monogallate and theaflavin digallate

Gutierrez L, Zapata A, Coll L, Diez C// Univ Complutense Madrid, Fac Farm, Dept Nutr & Bromatol II, E-28040 Madrid, Spain  
*Food Chem* 1995 54 (1) 113  
 Analytical study of the mineral and sugar fractions of peach liqueurs

Hayashi T, Watanabe M, Fukaya Y, Yoshida K, Konno K, Hotta I, Ikai Y, Oka H, Hayakawa J, Ishikawa N// Ichimiya Publ Hlth Ctr, 1-3 Kogane machi, Ichimiya, Aichi 491, Japan  
*J Food Hyg Soc Jpn* 1995 36 (3) 352  
 Simultaneous determination of unusual-smelling substances in foods by essential oil distillation and gas chromatography (Japanese, English Abstract)

Nedjma M, Maujean A// Fac Sci Reims, Oenol Lab, BP 347, F-51062 Reims, France  
*J Chromatogr A* 1995 704 (2) 495  
 Improved chromatographic analysis of volatile sulfur compounds by the static headspace technique on water-alcohol solutions and brandies with chemiluminescence detection

Piry J, Pribela A, Durcanska J, Farkas P// Slovak Tech Univ, Fac Chem Technol, Dept Saccharides & Food Preservat, Radlinskeho 9, Bratislava 81237, Slovakia  
*Food Chem* 1995 54 (1) 73  
 Fractionation of volatiles from blackcurrant (*Ribes nigrum* L) by different extractive methods

Preininger M, Grosch W// \*Deutsch Forsch Anstalt Lebensmittelchem, Lichtenbergstr 4, D-85748 Garching, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 201 (1) 97  
 Determination of 4-hydroxy-2,5-dimethyl-3 (2H)-furanone (HDMF) in cultures of bacteria

Rizzolo A, Lombardi P, Vanoli M, Polesello S// IVTPA, Via Venezia 26, I-20133 Milan, Italy  
*J High Res Chromatogr* 1995 18 (5) 309  
 Use of capillary gas chromatography sensory analysis as an additional tool for sampling technique comparison in peach aroma analysis

Van Ruth SM, Roozen JP, Cozijnsen JL, Posthumus MA// Agr Univ Wageningen, Dept Food Sci, POB 8129, 6700 EG Wageningen, The Netherlands  
*Food Chem* 1995 54 (1) 1  
 Volatile compounds of rehydrated French beans, bell peppers and leeks. II. Gas chromatography/sniffing port analysis and sensory evaluation

## 12 ORGANIC ACIDS

Defilippi A, Piancone G, Prandtatter A, Tibaldi GP// Azienda Unita Sanit Locale 9, Sez Chim, Sanit Pubbl Lab, Reg Piemonte, Via Saudino 3, I-10015 Ivrea, Italy  
*Ind Aliment* 1995 34 (337) 495  
 Honey quality: Ion chromatography determination of formic acid (Italian, English Abstract)

Matsumoto K, Tsukatani T, Okajima Y// Kyushu Univ, Fac Sci, Dept Food Sci & Technol, Higashi ku, 4609 Hakozaki, Fukuoka 812, Japan  
*Electroanal* 1995 7 (6) 527  
 Amperometric flow-injection determination of citric acid in food using free citrate lyase and co-immobilized oxalacetate decarboxylase and pyruvate oxidase

Sanchez FG, Diaz AN, Garcia JAG// Univ Malaga, Fac Ciencias, Dept Quim Analit, E-29071 Malaga, Spain  
*Anal Chim Acta* 1995 310 (3) 399  
 Study of the enhanced chemiluminescence from the luminol horseradish peroxidase hydrogen peroxide *p*-coumaric acid system at very short times: Stopped flow selective determination of *p*-coumaric acid in beers

## 13 ANIMAL PRODUCTS

Fiala M, Honikel KO// Bundesanstalt Fleischforsch, Inst Chem & Phys, EC Baumann Str 20, D-95326 Kulmbach, Germany  
*Fleischwirtschaft* 1995 75 (7) 920  
 The application of the differential scanning calorimetry (DSC). I. About the detection of the state of ageing of beef with DSC and impulse impedance (German, English Abstract)

Rao RR, Cooper EL, Milton GN// c/o Chatt A, AECL Res Chalk River Labs, Environm Res Branch, Chalk River, Ontario, Canada K0J 1J0  
*Fresenius J Anal Chem* 1995 352 (1-2) 136  
 Preparation and evaluation of the homogeneity of milk as a candidate reference material for <sup>14</sup>C

Swatland HJ// Univ Guelph, Dept Anim & Poultry Sci, Guelph, Ontario, Canada N1G 2W1  
*Arch Tierzucht* 1995 38 (4) 437  
 Prediction of physical properties of turkey meat from ultraviolet fluorescence measured through a hypodermic needle (German, English Abstract)

## 14 PLANT & MICROBIAL PRODUCTS

Bayindirli A, Khalafi S, Yenicerci A// Middle East Tech Univ, Dept Food Engr, Ankara 06531, Turkey  
*J Food Process Preserv* 1995 19 (3) 223  
 Nonenzymatic browning in clarified apple juice at high temperatures: A response surface analysis

Bronner WE, Beecher GR// USDA ARS, Beltsville Human Nutr Res Ctr, Food Compos Lab, Beltsville, Md 20705, USA  
*J Chromatogr A* 1995 705 (2) 247  
 Extraction and measurement of prominent flavonoids in orange and grapefruit juice concentrates

De Francischi MLP, Salgado JM, Carvalho MTV, Derbyshire E// Univ Sao Paulo, Escola Super Agr Luis de Queiroz, Setor Nutr Human & Alimentos, Cx Postal 09, BR-13418-900 Piracicaba, SP, Brazil  
*Arch Latinoamer Nutr* 1994 44 (4) 274  
 Electrophoretic analysis of meal of buckwheat in comparison with common wheat flour (Spanish, English Abstract)

Djozan D, Assadi Y// Univ Tabriz, Fac Chem, Dept Analyt Chem, Tabriz, Iran  
*Talanta* 1995 42 (6) 861  
 Determination of anthraquinones in rhubarb roots, dock flowers and senna leaves by normal-phase high-performance liquid chromatography

Kumpulainen JT, Hyvarinen H, Hagg M, Plaami S, Tahvonen R// Agr Res Ctr, Food Res Inst, Food Chem Lab, SF-31600 Jokioinen, Finland  
*Fresenius J Anal Chem* 1995 352 (1-2) 102  
 Preparation and characterization for mineral elements and total dietary fiber and testing for stability of  $\beta$ -carotene of an ARC/CL carrot powder multipurpose candidate reference material

Le Men-Olivier L, Renault JH, Thepenier P, Jacquier MJ, Zeches-Hanrot M, Foucault AP// Fac Pharm Reims, Pharmacognosie Lab, CNRS, URS 492, 51 rue Cognac Jay, F-51096 Reims, France  
*J Liq Chromatogr* 1995 18 (8) 1655  
 Purification of the main ginsenosides from a French crop of *Panax quinquefolium* L

Lu LJW, Broemeling LD, Marshall MV, Ramanujam VMS// Univ Texas, Med Branch, Dept Prevent Med & Community Hlth, 700 Strand, 2102 Ewing Hall, Galveston, Tx 77555, USA  
*Cancer Epidem Biomarker Prev* 1995 4 (5) 497  
 A simplified method to quantify isoflavones in commercial soybean diets and human urine after legume consumption

Miyagawa K, Yamano H, Ogawa I// \*Kagawa Univ, Fac Educ, Saiwai-cho 1-1, Takamatsu, Kagawa 760, Japan  
*Thermochim Acta* 1995 257 13  
 Calorimetric measurements on the swelling of green tea

Nakayama M, Yamane H, Nojiri H, Yokota T, Yamaguchi I, Murofushi N, Takahashi N, Nishijima T, Koshioka M, Katsura N *et al*// Teikyo Univ, Dept Biosci, Utsunomiya, Tochigi 320, Japan  
*Biosci Biotechnol Biochem* 1995 59 (6) 1121  
 Qualitative and quantitative analysis of endogenous gibberellins in *Raphanus sativus* L during cold treatment and the subsequent growth