

# Bibliography of analytical, nutritional and clinical methods

(4 weeks journals - Search completed at 12th Feb 1997)

## 1 BOOKS, REVIEWS & SYMPOSIA

Li Chan ECY// Univ British Columbia, Dept Food Sci, 6650 NW Marine Dr, Vancouver, Brit Columbia, Canada V6T 1Z4  
*Trends Food Sci Technol* 1996 7 (11) 361

The applications of Raman spectroscopy in food science (Review)

Porretta S, Moskowicz HR, Gofman A// Stn Sperimentale Ind Conserve Alimentari, Parma, Italy  
*Ind Aliment* 1996 (Suppl 8) 3

Sensory analysis of foods: A short history and overview of current methods (Italian, English Abstract)

## 2 GENERAL

Aufreere J, Graviou D, Demarquilly C, Perez JM, Andrieu J// INRA, SRNH, Unite Valeuralimentaire, F-63122 St Genes Champanelle, France  
*Anim Feed Sci Tech* 1996 62 (2-4) 77

Near infrared reflectance spectroscopy to predict energy value of compound feeds for swine and ruminants

Bicanic D, Doka O, Gibkes J, Offermann S, Dadarlat D, Keyzer C, Long G, Fink T, Gerkema E, Bein B *et al*// Agr Univ Wageningen, Dept Agr Engn & Phys, Bomenweg 4, NL-6703 HD Wageningen, The Netherlands  
*Prog Nat Sci* 1996 6 (Suppl) S573

Photoacoustic and photothermal methods as a tool to aid authenticity tests and quality assessment of foods

Careri M, Mangia A// Univ Parma, Dept Gen & Inorgan Chem, Viale Sci, I-43100 Parma, Italy  
*Trend Anal Chem* 1996 15 (10) 538

Multidimensional detection methods for separations and their application in food analysis

De Vries JHM, Burema J, Van Staveren WA// Wageningen Univ Agr, Dept Human Nutr, Bomenweg 2, NL-6703 HD Wageningen, The Netherlands  
*Amer J Clin Nutr* 1997 65 (1) 169

Validation of dietary assessment methods (Letter)

Faulh C, Wittkowski R// \*Bundesinst Gesundheitlichen Verbraucherschutz, Postfach 330013, D-14191 Berlin, Germany  
*Z Lebensmittel-Untersuch Fors* 1996 203 (6) 541

On line <sup>1</sup>H-NMR to facilitate tube preparation in SNIF-NMR analysis

Fonseca RW, Miller-Ihli NJ// \*USDA/ARS, Beltsville Human Nutr Res Ctr, Food Compos Lab, Beltsville, Md 20705, USA  
*Spectrochim Acta Pt B-Atom Spect* 1996 51 (13) 1591

Influence of sample matrix components on the selection of calibration strategies in electrothermal vaporization inductively coupled plasma mass spectrometry

Franko M, Bicanic D, Gibkes J, Bremer M, Akkermans E// Jozef Stefan Inst, Jamova 39, Ljubljana 1001, Slovenia  
*Prog Nat Sci* 1996 6 (Suppl) S569

Applications of thermal lens spectrometry in food industry and agriculture

Kantha SS, Wada S, Takeuchi M, Watabe S, Ochi H// Japan Inst Control Anging, 723-1 Haruoka, Fukuroi, Shizuoka 43701, Japan  
*Biotechnol Technique* 1996 10 (12) 933

A sensitive method to screen for hydroxyl radical scavenging activity in natural food extracts using competitive inhibition ELISA for 8-hydroxy deoxyguanosine

Kerr WL, Kauten RJ, Ozilgen M, McCarthy MJ, Reid DS// Univ Georgia, Dept Food Sci & Technol, Athens, Ga 30602, USA  
*J Food Process Eng* 1996 19 (4) 363

NMR imaging, calorimetric, and mathematical modeling studies of food freezing

Mason TJ, Paniwnyk L, Lorimer JP// Coventry Polytech, Sonochem Ctr, Coventry CV1 5FB, England

*Ultrason Sonochemistry* 1996 3 (3) S253

The uses of ultrasound in food technology

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

*Magn Reson Imaging* 1996 14 (7-8) 799

Applications of magnetic resonance imaging to food research

Yan ZY, McCarthy MJ, Klemann L, Otterburn MS, Finley J// Nabisco Inc, 200 De Forest Ave, East Hanover, NJ 07936, USA

*Magn Reson Imaging* 1996 14 (7-8) 979

NMR applications in complex food systems

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Abu-Tarboush HM, Atia M, Al-Johany AM// King Saud Univ, Dept Food Sci, POB 2460, Riyadh 11451, Saudi Arabia

*Ecol Food Nutr* 1996 35 (4) 275

Nutritional quality of dhub (lizard) meat (*Uromastix aegyptius* Blanford 1874) and characterization of its protein using electrophoretic techniques

Benjakul S, Seymour TA, Morrissey MT, An H// Oregon State Univ, Seafood Lab, 250-36th St, Astoria, Or 97103, USA

*J Food Sci* 1996 61 (6) 1165

Proteinase in Pacific whiting surimi wash water: Identification and characterization

Castaldo D, Servillo L, Loiudice R, Balestrieri C, Laratta B, Quagliuolo L, Giovane A// \*Stn Sperimentale Ind Conserve Alimentari, Dept Fruit Juices & Tomato Prod, Via Nazl 121-123, I-84021 Angri, Salerno, Italy  
*Int J Food Sci Technol* 1996 31 (4) 313

The detection of residual pectin methylesterase activity in pasteurized tomato juices

Marcin A, Fencik R, Belickova E, Siklenka P// Inst Expt Vet Med, Kosice 04001, Slovakia

*J Food Sci Technol-Mysore* 1996 33 (5) 421

Detection of wheat protein in sausages by dot-EIA technique

Paredi ME, Tomas MC, Crupkin M, Anon MC// INTI, Ctr Invest Tecnol Pesquera, Marcelo T de Alvear 1168, RA-7600 Mar del Plata, Buenos Aires, Argentina

*J Agr Food Chem* 1996 44 (12) 3812

Thermal denaturation of muscle proteins from male and female squid (*Illex argentinus*) at different sexual maturation stages. A differential scanning calorimetric study

Recio I, Lopez-Fandino R, Olano A, Olieman C, Ramos M// \*CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain

*J Agr Food Chem* 1996 44 (12) 3845

Study of the formation of caseinomacropolymers in stored ultra-high-temperature-treated milk by capillary electrophoresis

Recio I, De Frutos M, Olano A, Ramos M// \*Address as above.

*J Agr Food Chem* 1996 44 (12) 3955

Protein changes in stored ultra-high-temperature-treated milks studied by capillary electrophoresis and high-performance liquid chromatography

Rumbo M, Chirido FG, Fossati CA, Anon MC// \*Univ Nacl La Plata, Ctr Invest & Desarrollo Criotecnol Alimentos, 47 & 116, RA-1900 La Plata, Buenos Aires, Argentina

*J Agr Food Chem* 1996 44 (12) 3793

Analysis of structural properties and immunochemical reactivity of heat-treated ovalbumin

Toran AA, Barbera R, Farre R, Lagarda MJ, Lopez JC// Univ Valencia, Dept Nutr & Food Chem, Avda Vicente Andres Estelles s/n, E-46100 Burjassot, Spain

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.

*J Food Sci* 1996 **61** (6) 1132

HPLC method for cyst(e)ine and methionine in infant formulas

#### 4 CARBOHYDRATES

Eerlingen RC, Jacobs H, Van Win H, Delcour JA\*// \*Katholieke Univ Leuven, Food Chem Lab, Kardinaal Mercierlaan 92, B-3001 Heverlee, Belgium

*J Therm Anal* 1996 **47** (5) 1229

Effect of hydrothermal treatment on the gelatinisation properties of potato starch as measured by differential scanning calorimetry

Ferrero C, Martino MN, Zaritzky NE// Natl Univ La Plata, CONICET, CIDCA, Calle 47 & 116, RA-1900 La Plata, Argentina

*J Therm Anal* 1996 **47** (5) 1247

Effect of hydrocolloids on starch thermal transitions, as measured by DSC

Huang VT, Haynes L\*, Levine H, Slade L// \*Nabisco Foods Grp, East Hanover, NJ 07936, USA

*J Therm Anal* 1996 **47** (5) 1289

Glass transitions in starch, gluten and bread as measured: Dielectric spectroscopy and TMA methods

Ishida N, Koizumi M, Kano H// Natl Food Res Inst, Tsukuba, Ibaraki 305, Japan

*Plant Cell Environ* 1996 **19** (12) 1415

Location of sugars in barley seeds during germination by NMR microscopy

Masuda R, Kaneko K, Yamashita I// Natl Food Res Inst, 2-1-2 Kannondai, Tsukuba, Ibaraki 305, Japan

*J Food Sci* 1996 **61** (6) 1186

Sugar and cyclitol determination in vegetables by HPLC using postcolumn fluorescent derivatization

Nilsson GS, Bergquist KE, Nilsson U, Gorton L// Lund Univ, Dept Analyt Chem, POB 124, S-22100 Lund, Sweden

*Starch* 1996 **48** (10) 352

Determination of the degree of branching in normal and amylopectin type potato starch with <sup>1</sup>H-NMR spectroscopy: Improved resolution and two-dimensional spectroscopy

Rugraff YL, Desbois P, Le Botlan DJ\*// \*Univ Nantes, URA, CNRS 472, Lab Anal Isotop & Electrochim Metab, F-44072 Nantes, France

*Carbohydr Res* 1996 **295** 185

Quantitative analysis of wheat starch water suspensions by pulsed NMR spectroscopy measurements

Seow CC, Teo CH, Nair CKV// Univ Sains Malaysia, Food Technol Div, George Town 11800, Malaysia

*J Therm Anal* 1996 **47** (5) 1201

A DSC study of the effects of sugars on thermal properties of rice starch gels before and after aging

Silverio J, Svensson E, Eliasson AC\*, Olofsson G// \*Lund Univ, Dept Food Technol, POB 124, S-22100 Lund, Sweden

*J Therm Anal* 1996 **47** (5) 1179

Isothermal microcalorimetric studies on starch retrogradation

Simatos D, Blond G, Roudaut G, Champion D, Perez J, Faivre AL// Univ Bourgogne 1, Ecole Natl Super Biol Appl Nutr & Alimentat, Campus Univ 1, Esplanade Erasme, F-21000 Dijon, France

*J Therm Anal* 1996 **47** (5) 1419

Influence of heating and cooling rates on the glass transition temperature and the fragility parameter of sorbitol and fructose as measured by DSC

Slade L, Levine H\*, Wang M, Ievolella J// \*Nabisco Foods Grp, Fundamental Sci Dept, POB 1944, East Hanover, NJ 07936, USA

*J Therm Anal* 1996 **47** (5) 1299

DSC analysis of starch thermal properties related to functionality in low-moisture baked goods

Ukeda H, Fujita Y, Ohira M, Sawamura M// Kochi Univ, Dept Bioresources Sci, Monobe B-200, Nankoku, Kochi 783, Japan

*J Agr Food Chem* 1996 **44** (12) 3858

Immobilized enzyme-based microtiter plate assay for glucose in foods

#### 5 LIPIDS

*Monatsschr Brauwissen* 1996 **49** (11-12) 335

EBC method 6.1.1: Fatty substances in solid adjuncts (German, English Abstract)

Ali LH, Angyal G, Weaver CM, Rader JJ, Mossoba MM// US/FDA, Off Food Labeling, HFS-175, 200 C St SW, Washington, DC 20204, USA

*J Amer Oil Chem Soc* 1996 **73** (12) 1699

Determination of total *trans* fatty acids in foods: Comparison of capillary-column gas chromatography and single-bounce horizontal attenuated total reflection infrared spectroscopy

Benard M, Johnson B// Address not available.

*Monatsschr Brauwissen* 1996 **49** (11-12) 331

Determination of moisture and fatty substances contents of solid adjuncts (German, English Abstract)

Berezin OY, Turyan YI, Kuselman I\*, Shenhar A// \*Natl Phys Lab Israel, Danciger A Bldg, IL-91904 Jerusalem, Israel

*J Amer Oil Chem Soc* 1996 **73** (12) 1707

Rapid and complete extraction of free fatty acids from oilseeds for acid value determination

Bruhl L// Bundesanstalt Getreide Kartoffel & Fettforsch, Inst Chem & Phys Fette, Piusallee 76, D-48147 Munster, Germany

*Fett-Lipid* 1996 **98** (11) 380

Determination of *trans* fatty acids in cold pressed oils and in dried seeds

De Blas OJ, Gonzalez AD// Univ Salamanca, Plaza Merced s/n, E-37008 Salamanca, Spain

*J Amer Oil Chem Soc* 1996 **73** (12) 1685

Determination of sterols by capillary column gas chromatography. Differentiation among different types of olive oil: Virgin, refined, and solvent-extracted

Franck P, Sallerin JL, Schroeder H, Gelot MA, Nabet P\*// \*CHU Nancy, Biochem Lab, POB 34, F-54035 Nancy, France

*Clin Chem* 1996 **42** (12) 2015

Rapid determination of fecal fat by Fourier transform infrared analysis (FTIR) with partial least squares regression and an attenuated total reflectance accessory

Hayashi K, Kishimura H// Hokkaido Univ, Fac Fisheries, Hakodate. Hokkaido 041, Japan

*Fisheries Science* 1996 **62** (5) 842

Preparation and purification of DHA-enriched triacylglycerols from fish oils by column chromatography

Hayes DG, Kleiman R// USDA/ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, IL 61604, USA

*J Amer Oil Chem Soc* 1996 **73** (12) 1691

Supercritical fluid chromatographic analysis of new crop seed oils and their reactions

Krause BR, Schork NJ, Kieft KA, Smith MP, Maciejko JJ// Warner Lambert Parke Davis, Parke Davis Pharmaceut Res Div, Cardiac & Vasc Dis, 2800 Plymouth Rd, Ann Arbor, MI 48105, USA

*Clin Chem* 1996 **42** (12) 1996

High correlation but lack of agreement between direct high-performance gel chromatography analysis and conventional indirect methods for determining lipoprotein cholesterol

Laakso P, Voutilainen P// Turku Univ, Dept Biochem & Food Chem, FIN-20014 Turku, Finland

*Lipids* 1996 **31** (12) 1311

Analysis of triacylglycerols by silver-ion high-performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry

Marshall PA, Vandepier JM, Pant I, Trenerry VC, Scheelings P, Buick DR// Australian Govt Anal Lab, 338-340 Tapleys Hill Rd, Seaton, SA 5023, Australia

*Food Chem* 1997 **58** (3) 269

The development and evaluation of secondary food reference materials for the determination of cholesterol, fatty acids and selected water-soluble vitamins in foods

Piette JPG, Jacques L// Agr & Agri-Food Canada, Ctr Food Res & Dev, 3600 Casavant Blvd West, St Hyacinthe, Quebec, Canada J2S 8E3

*Fleischwirtschaft* 1996 **76** (12) 1340

Evaluation of a rapid fat analyzer, based on ohmic heating, for the classification of ground beef

Stott AW, Evershed RP\*// \*Univ Bristol, Organ Geochem Unit, Cantocks Close, Bristol BS8 1TS, England

*Anal Chem* 1996 **68** (24) 4402

$\delta^{13}\text{C}$  analysis of cholesterol preserved in archaeological bones and teeth

Taradjiiska RB, Marekov IN, Nikolova-Damyanova BM\*, Amidzhin BS// \*Bulgarian Acad Sci, Lab Lipid Chem, Acad G Bonchev St, blok 9, BU-1113 Sofia, Bulgaria

*J Sci Food Agr* 1996 **72** (4) 403

Determination of triacylglycerol classes and molecular species in seed oils with high content of linoleic and linolenic fatty acids

Wein M, Erbel R// Univ Essen Gesamthsch Klinikum, Abt Kardiol, Zentrum Innere Med, Hufelandstr 55, D-45122 Essen, Germany

*Deut Med Wochenschr* 1996 **121** (51-52) 1619

Determination of serum lipid levels following acute myocardial infarction (German)

#### 6 VITAMINS & CO-FACTORS

Argekar AP, Kunjir SS// Inst Sci, Dept Chem, Analyt Lab, 15 Madam Cama Rd, Mumbai 400032, India

*J Planar Chromat-Mod TLC* 1996 **9** (5) 390

Simultaneous determination of isoniazid and pyridoxine hydrochloride in phar-

maceutical preparations by high-performance thin-layer chromatography

Bates CJ, Chen SJ, MacDonald A, Holden R// MRC Dunn Nutr Unit, Downhams Lane, Milton Rd, Cambridge CB4 1XJ, England  
*Int J Vitam Nutr Res* 1996 **66** (4) 316

Quantitation of vitamin E and a carotenoid pigment in cataractous human lenses, and the effect of a dietary supplement

Blankenship JF, Vanstipdonk MJ, Schweikert EA\*// \*Texas A&M Univ, Dept Chem, College Station, Tx 77843, USA  
*Rapid Commun Mass Spectrom* 1997 **11** (1) 143

Matrix effects on the fragmentation of vitamin B<sub>12</sub> in plasma desorption mass spectrometry

Emenisher C, Simunovic N, Sander LC, Schwartz SJ\*// \*Ohio State Univ, Dept Food Sci & Technol, Columbus, Oh 43210, USA  
*J Agr Food Chem* 1996 **44** (12) 3887

Separation of geometrical carotenoid isomers in biological extracts using a polymeric C<sub>30</sub> column in reversed-phase liquid chromatography

Lee W, Roberts SM, Labbe RF\*// \*Harborview Med Ctr, Dept Lab Med, Box 359743, Seattle, Wa 98104, USA  
*Clin Chem* 1997 **43** (1) 154

Ascorbic acid determination with an automated enzymatic procedure

Makowski GS, Hopfer SM// Univ Connecticut, Dept Lab Med, 263 Farmington Ave, Farmington, Ct 06030, USA  
*Clin Chem* 1997 **43** (1) 185

Measurement of maternal folate status and risk of neural tube defects

Sanchez AM, Congdon NG\*, Sommer A, Rahmathullah L, Venkataswamy PG, Chandravathi PS, Clement L// \*Johns Hopkins Univ Hosp, Dana Ctr Prevent Ophthalmol, 600 Nth Wolfe St, Baltimore, Md 21205, USA  
*Amer J Clin Nutr* 1997 **65** (1) 61

Pupillary threshold as an index of population vitamin A status among children in India

Stites TE, Bailey LB, Scott KC, Toth JP, Fisher WP, Gregory JF\*// \*Univ Florida, Dept Food Sci & Human Nutr, POB 110370, Gainesville, Fl 32611, USA  
*Amer J Clin Nutr* 1997 **65** (1) 53

Kinetic modeling of folate metabolism through use of chronic administration of deuterium-labeled folic acid in men

Tsai PJ, Wu JP, Lin NN, Kuo JS, Yang CS\*// \*Taichung Vet Gen Hosp, Dept Med Res, Taichung 40705, Taiwan  
*J Chromatogr B-Biomed Appl* 1996 **686** (2) 151

*In vivo*, continuous and automatic monitoring of extracellular ascorbic acid by microdialysis and on-line liquid chromatography

Ward CM, Trenerry VC\*, Pant U// \*Australian Govt Anal Labs, 338-340 Tapleys Hill Rd, Seaton, SA 5023, Australia  
*Food Chem* 1997 **58** (3) 185

The application of capillary electrophoresis to the determination of total niacin in concentrated yeast spreads

Winkhofer-Roob BM, Van't Hof MA, Shmerling DH// Karl Franzens Univ, Inst Biochem, Schubertstr 1, A-8010 Graz, Austria  
*Clin Chem* 1997 **43** (1) 146

Reference values for plasma concentrations of vitamin E and A and carotenoids in a Swiss population from infancy to adulthood, adjusted for seasonal influences

## 7 TRACE ELEMENTS & MINERALS

Crews HM, Clarke PA, Lewis DJ, Owen LM, Strutt PR, Izquierdo A// MAFF CSL Food Sci Lab, Colney, Norwich Res Pk, Norwich NR4 7UQ, England  
*J Anal Atom Spectrom* 1996 **11** (12) 1177

Investigation of selenium speciation in *in vitro* gastrointestinal extracts of cooked cod by high-performance liquid chromatography/inductively coupled plasma mass spectrometry and electrospray mass spectrometry

D'Haese PC, Van Landeghem GF, Lamberts LV, Bekaert VA, Schrooten I, De Broe ME\*// \*Univ Antwerp Hosp, Dept Nephrol Hypertens, Wilrijkstr 10, B-2650 Edegem, Belgium  
*Clin Chem* 1997 **43** (1) 121

Measurement of strontium in serum, urine, bone, and soft tissues by Zeeman atomic absorption spectrometry

Dybczynski R// Inst Nucl Chem & Technol, Dept Analyt Chem, ul Dorodna 16, PL-03195 Warsaw, Poland  
*J Anal Chem-Engl Tr* 1996 **51** (12) 1206

Very accurate methods for the determination of some essential of toxic trace elements in biological materials by neutron activation analysis and column chromatography

Giroussi ST, Voulgaropoulos AN\*, Ayiannidis A// \*Aristotelian Univ Thessaloniki, Dept Chem, Analyt Chem Lab, GR-54006 Thessaloniki, Greece  
*Fresenius J Anal Chem* 1996 **356** (7) 452

Simultaneous determination of tetrathiomolybdates and molybdates in spiked blood plasma by differential pulse voltammetry and their speciation

Gottelt U, Henrion G, Kalahne R, Stoyke M// Inst Vet Pharmakol & Toxikol GmbH, Weissenseer Str 36, D-16321 Bernau, Germany  
*Nahrung* 1996 **40** (6) 313

Simultaneous determination of the elements copper, zinc, iron and manganese as well as sodium, potassium, calcium and magnesium by flame atomic absorption spectrometry (F-AAS)

Hou XL, Hou YH// Acad Sinica, Inst High Energy Phys, POB 2732, Beijing 100080, Peoples Rep China  
*Biol Tr Elem Res* 1996 **55** (1-2) 89

Determination of 19 elements in human eye lenses

Hussein L, Bruggeman J// Natl Res Ctr, Dept Nutr, Giza-Dokki 12311, Egypt  
*Food Chem* 1997 **58** (4) 391

Zinc analysis of Egyptian foods and estimated daily intakes among an urban population group

Kupila-Rantala T, Dabek JT, Hyvonen-Dabek M// Univ Helsinki, Dept Phys, POB 9, FIN-00014 Helsinki, Finland  
*Biol Tr Elem Res* 1996 **55** (1-2) 173

A high resolution PIXE measurement for blood plasma ultrafiltrate

Luten J, Crews H, Flynn A, Van Dael P, Kastenmayer P, Hurrell R, Deelstra H, Shen LH, Fairweather-Tait S, Hickson K *et al*// Netherlands Inst Fishery Res, DLO, POB 68, NL-1970 AB IJmuiden, The Netherlands  
*J Sci Food Agr* 1996 **72** (4) 415

Interlaboratory trial on the determination of the *in vitro* iron dialysability from food

Oliveira CMRR, Rebelo MJF, Camoes MFG// Univ Lisbon, CECUL, Dept Chem & Biochem, Rua Escola Politecn 58, P-1250 Lisbon, Portugal  
*Analyst* 1996 **121** (12) 1907

Effect of different experimental parameters on the potentiometric evaluation of blood electrolytes using K<sup>+</sup> as a test cation

Perez EL, Rios A, Valcarcel M\*// \*Univ Cordoba, Dept Analyt Chem, E-14004 Cordoba, Spain  
*Anal Chem* 1997 **69** (1) 91

Mechanized sample workup interfaced with flow system in flow-reversal mode for the determination of boric acid in adulterated shellfish

Rangel AOSS, Toth IV// Univ Catolica Portuguesa, Escola Super Biotecnol, Rua Dr Antonio Bernardino de Almeida, P-4200 Oporto, Portugal  
*Anal Sci* 1996 **12** (6) 887

Flow injection sequential speciation of free and total potassium in fortified wines

Satake M, Wang GF// Fukui Univ, Fac Engr, Fukui 910, Japan  
*Ann Chim-Rome* 1996 **86** (5-6) 293

Column preconcentration in the spectrophotometric determination of phosphorus in human hair, *Chlorella*, mussel and natural waters using molybdate and brilliant green with naphthalene as an absorbent

Szajkowski Z// Akad Med Karola Marcinkowskiego, Katedra & Zaklad Bromatol, ul Wilczak 6F, PL-61623 Poznan, Poland  
*Nahrung* 1996 **40** (6) 330

Magnesium, calcium and phosphorous contents in daily food rations in primary school children: Questionnaire and analytic studies

Yamanishi H, Iyama S, Amino N// Osaka Univ Hosp, Cent Lab Clin Invest, 2-15 Yamadaoka, Suita, Osaka 565, Japan  
*Clin Chem* 1996 **42** (12) 2042

Ferritin iron interferes with recommended method for measuring serum iron

Zhang YP, Yuan DX, Chen JX, Lan TS, Chen HQ// Longyan Dist Sanitat & Antiepidem Stn, Longyan 364000, Peoples Rep China  
*Clin Chem* 1996 **42** (12) 2021

Spectrophotometric determination of urinary iodine by flow injection analysis with on-line catalytic digestion

## 8 DRUG, BIOCIDES & PROCESSING RESIDUES

Acquistucci R, Panfili G, Marconi E// Ist Nazl Nutr, Via Ardeatina 546, I-00178 Rome, Italy  
*J Agr Food Chem* 1996 **44** (12) 3855

Application of the microwave hydrolysis to furosine determination in cereal and dairy foods

Akiyama Y, Yano M, Mitsuhashi T, Takeda N, Tsuji M// Hyogo Prefectural Inst Publ Hlth, Hyogo ku, 2-1-29 Arata cho, Kobe 652, Japan  
*J Food Hyg Soc Jpn* 1996 **37** (6) 351

Simultaneous determination of pesticides in agricultural products by solid-phase extraction and gas chromatography/mass spectrometry (Japanese, English Abstract)

Barnes KA, Fussell RJ, Startin JR, Pegg MK, Thorpe SA, Reynolds SL// MAFF, CSL Food Sci Lab, Norwich Res Pk, Colney, Norwich NR4 7UQ, England  
*Rapid Commun Mass Spectrom* 1997 **11** (1) 117

High-performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry with ionization polarity switching for the determina-

tion of selected pesticides

Bernal JL, Del Nozal MJ, Rivera JM, Jimenez JJ, Atienza J// Univ Valladolid, Dept Analyt Chem, Prado Magdalena s/n, E-47005 Valladolid, Spain  
*J Chromatogr A* 1996 **754** (1-2) 507

Determination of the fungicide vinclozolin in honey and bee larvae by solid-phase and solvent extraction with gas chromatography and electron-capture and mass spectrometric detection

Bordet F, Inthavong D, Mallet J, Maurice L// CNEVA Paris, Lab Cent Hyg Alimentaire, 43 rue Dantzig, F-75015 Paris, France  
*Analisis* 1996 **24** (8) 328

Analysis of traces of organo-chloride pesticides and of polychloro-biphenyls in foods of animal origin. Multiresidue rapid method. Study of the repeatability and improvement of purification (French, English Abstract)

Bushway RJ// Univ Maine, Dept Food Sci, Orono, Me 04469, USA  
*J Chromatogr A* 1996 **754** (1-2) 431

Complementation of direct-injection high-performance liquid chromatography and enzyme-linked immunosorbent assay for the analysis of thiabendazole in fruit juices and concentrates

Cairolì S, Arnoldi A, Pagani S\*// \*Univ Milan, Dipt Sci Mol Agroalimentari, Via Celoria 2, I-20133 Milan, Italy  
*J Agr Food Chem* 1996 **44** (12) 3849

Enzyme-linked immunosorbent assay for the quantitation of the fungicide tetraconazole in fruits and fruit juices

Casademont G, Perez B, Regueiro JAG\*// \*IRTA, Unitat Tecnol Analit, Ctr Tecnol Cam, Granja Camps & Armet, E-17121 Monells, Girona, Spain  
*J Chromatogr B-Biomed Appl* 1996 **686** (2) 189

Simultaneous determination, in calf urine, of twelve anabolic agents as hepta-fluorobutyl derivatives by capillary gas chromatography-mass spectrometry

Chen ZM, Wang YH// Chinese Acad Agr Sci, Tea Res Inst, Hangzhou 310008, Zhejiang, Peoples Rep China  
*J Chromatogr A* 1996 **754** (1-2) 367

Chromatographic methods for the determination of pyrethrin and pyrethroid pesticide residues in crops, foods and environmental samples

Combs MT, Ashraf-Khorassani M, Taylor LT\*// \*Virginia Polytech Inst & State Univ, Dept Chem, Blacksburg, Va 24061, USA  
*Anal Chem* 1996 **68** (24) 4507

Comparison of supercritical CHF<sub>3</sub> and CO<sub>2</sub> for extraction of sulfonamides from various food matrices

Deng D, Li T, Li J, Wang R// Beijing Med Univ, Inst Canc Res, Beijing 100034, Peoples Rep China  
*Eur J Cancer Prev* 1996 **5** (Suppl 1) 161

Identification of a N-nitrosamide in nitrosated fish sauce by HPLC-photohydrolysis-pyrololysis-TEA method

Di Muccio A, Pelosi P, Camoni I, Barbini DA, Dommarco R, Generali T, Ausili A// Ist Super Sanita, Viale Regina Elena 299, I-00161 Rome, Italy  
*J Chromatogr A* 1996 **754** (1-2) 497

Selective, solid-matrix dispersion extraction of organophosphate pesticide residues from milk

Elliott CT, Baxter A, Haasnoot W, Lommen A, McCaughey WJ// DANI, Drug Residue Lab, Storey Rd, Belfast BT4 3SD, Northern Ireland  
*Food Agric Immunol* 1996 **8** (4) 219

Development of a dual label time-resolved fluoroimmunoassay for the detection of  $\beta$ -agonists in cattle urine

Falcon MG, Amigo SG, Yusty MAL\*, Villaizan MJLD, Lozano JS// \*Univ Santiago de Compostela, Dept Analyt Chem Nutr & Bromatol, Area Nutr & Bromatol, E-15706 Santiago de Compostela, Spain  
*J Chromatogr A* 1996 **753** (2) 207

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