

# Bibliography of analytical, nutritional and clinical methods

(Four weeks journals - Search completed at 2nd December 1994)

## 1 BOOKS, REVIEWS & SYMPOSIA

*J Amer Oil Chem Soc* 1994 71 (10)  
Special issue: Instrumental methods for determination of oil, protein and other constituents of oilseeds and meals (Papers presented at the LXXXIV AOCS Annual Meeting & Expo, held in Anaheim, California)

*J AOAC Int* 1994 77 (5) A161  
Food and drug administration pesticide program: Residue monitoring 1993.

Abrams SA// Baylor Coll Med, Children's Nutr Res Ctr, Dept Pediat, 110 Bates St, Houston, Tx 77030, USA

*J Pediatr Gastroenterol Nutr* 1994 19 (2) 151  
Clinical studies of mineral metabolism in children using stable isotopes (Review)

Houben GF, Penninks AH// TNO, Nutr & Food Res Inst, Dept Gen Toxicol, POB 360, 3700 AJ Zeist, The Netherlands  
*Toxicology* 1994 91 (3) 289

Immunotoxicity of the colour additive caramel colour III. A review on complicated issues in the safety evaluation of a food additive (Review)

Kok WT// Univ Amsterdam, Analyt Chem Lab, Nieuwe Achtergracht 166, 1018 WV Amsterdam, The Netherlands  
*J Chromatogr B-Bio Med Appl* 1994 659 (1-2) 127

Derivatization reactions for the determination of aflatoxins by liquid chromatography with fluorescence detection (Review)

Psotka J, Shadow W// Perten Instruments Nth Amer Inc, Reno, Nv, USA  
*Int Sugar J* 1994 96 (1149) 358

NIR analysis in the wet corn refining industry: A technology review of methods in use (fructose)

## 2 GENERAL

Kaskoun MC, Johnson RK, Goran MI// \*Univ Alabama, Dept Nutr Sci, Energy Metab Lab, Birmingham, Al 35294, USA  
*Amer J Clin Nutr* 1994 60 (1) 43

Comparison of energy intake by semi-quantitative food-frequency questionnaire with total energy expenditure by the doubly-labeled water method in young children

Kemsley EK, Belton PS// AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Colney, Norwich NR4 7UA, England  
*Food Control* 1994 5 (4) 257

Potential of infrared emission spectroscopy for on-line analysis

Mannino S, Cosio MS, Wang J// Univ Milan, Dipt Sci & Tecnol Alimentari & Microbiol, via Celoria 2, I-20133 Milan, Italy  
*Analyst* 1994 119 (9) 2001

Organic-phase enzyme biosensor for moisture determination in food products

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Arteaga GE, Horimoto Y, Li Chan E, Nakai S// Ctr Invest Alimentac & Desarrollo AC, Carretera Victoria km 06, Apartado Postal 1735, Hermosillo 83000, Sonora, Mexico

*J Agr Food Chem* 1994 42 (9) 1938  
Partial least-squares regression of fourth-derivative ultraviolet absorbance spectra predicts composition of protein mixtures: Application to bovine caseins

Bernal MA, De Caceres FM, Barcelo AR// \*Univ La Coruna, Fac Sci, Dept Plant Biol, E-15071 La Coruna, Spain  
*Food Sci Technol-Lebensm Wiss* 1994 27 (1) 197

Histochemical localization of peroxidase in *Capsicum* fruits

Collar C, Martinez-Anaya MA// CSIC, Inst Agroquim & Tecnol Alimentos, Cereales Lab, Jaime Roig 11, E-46010 Valencia, Spain  
*J Liq Chromatogr* 1994 17 (16) 3437

Influence of the microbial starter and the breadmaking step on the free amino acid profiles of wheat sourdoughs, doughs, and breads by reversed-phase high-performance liquid chromatography

De Noni I, De Bernardi G, Pellegrino L// State Univ Milan, Dept Food Sci & Technol, via Celoria 2, I-20133 Milan, Italy

*Food Chem* 1994 51 (3) 325  
Detection of common-wheat (*Triticum aestivum*) flour in durum-wheat (*Triticum durum*) semolina by reverse-phase high-performance liquid chromatography (RP-HPLC) of specific albumins

Donkoh A, Moughan PJ\*, Smith WC// \*Massey Univ, Dept Anim Sci, Palmerston North, New Zealand  
*Anim Feed Sci Technol* 1994 49 (1-2) 43

Comparison of the slaughter method and simple T-piece cannulation of the terminal ileum for determining ileal amino acid digestibility in meat and bone meal for the growing pig

Egorov TA, Musolyamov AK, Kochergin AA, Andersen JS, Roepstorff P// Russian Acad Sci, Engelhardt Inst Molec Biol, ul Vavilova 32, Moscow 117984, Russia  
*J Cereal Sci* 1994 20 (2) 107

Isolation, characterisation by mass spectrometry and partial amino-acid sequencing of avenins

Eynard L, Guerrieri N, Cerletti P// Univ Milan, Dept Agr & Food Molec Sci, via Celoria 2, I-20133 Milan, Italy  
*Cereal Chem* 1994 71 (5) 434

Determination of wheat proteins in solution by dye binding in flour, dough, and bread crumb

Gaudichon C, Roos N, Mahe S\*, Sick H, Bouley C, Tome D// \*INRA, Fac Sci Pharmaceut & Biol, Unite Nutr Humaine & Physiol Intestinale, F-75006 Paris, France  
*J Nutr* 1994 124 (10) 1970

Gastric emptying regulates the kinetics of nitrogen absorption from <sup>15</sup>N-labeled milk and <sup>15</sup>N-labeled yogurt in miniature pigs

Messman MA, Weiss WP// \*Ohio State Univ, Ohio Agr Res & Dev Ctr, Dept Dairy Sci, Wooster, Oh 44691, USA  
*Anim Feed Sci Technol* 1994 49 (1-2) 25

Use of electrophoresis to quantify ruminal degradability of protein from concentrate feeds

Michaelsen S, Moller P, Sorensen H// Novo Nordisk A/S, Biochem, Bygning, Morkhoj Bygade 28, DK-2880 Soborg, Denmark  
*J Chromatogr A* 1994 680 (1) 299

Analysis of dansyl amino acids in feedstuffs and skin by micellar electrokinetic capillary chromatography

Panteghini M, Bonora R// Spedali Civil Brescia, Anal Chim Clin Lab 1, Settore Chim Clin & Enzimol, I-25125 Brescia, Italy  
*Clin Chem* 1994 40 (8) 1601

Triglyceride interference with an immunoturbidimetric quantification of lipoprotein(a) in serum (Letter)

Panteghini M, Bonora R// Address as above.

*Clin Chem* 1994 40 (8) 1602  
Triglyceride interference with an immunoturbidimetric quantification of lipoprotein(a) in serum (Response)

Peruffo ADB, Curioni A, Pressi G, Pogna NE, Zamorani A// Univ Padua, Dipt Biotechnol Agr, via Gradenigo 6, I-35131 Padua, Italy  
*Cereal Chem* 1994 71 (2) 122

Adsorption chromatography on controlled-pore glass beads of acetic acid-soluble wheat gluten proteins

Steinhart H, Bosselmann A, Moller C// Univ Hamburg, Inst Biochem & Food Chem, Grindelallee 117, D-20146 Hamburg, FRG  
*J Agr Food Chem* 1994 42 (9) 1943

Determination of pyridinolines in bovine collagenous tissues

Stevenson SG, Preston KR// Canadian Grain Commiss, Grain Res Lab, Winnipeg, Manitoba, Canada R3C 3G8  
*Cereal Chem* 1994 71 (2) 155

Intrinsic fluorescence and quenching studies of gluten proteins

Werner WE, Wiktorowicz JE, Kasarda DD// \*USDA ARS, Western Reg Res Ctr, Albany, Ca 94710, USA  
*Cereal Chem* 1994 71 (5) 397

Wheat varietal identification by capillary electrophoresis of gliadins and high

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.

molecular weight glutenin subunits

Wong TM, Carey CM, Lin SHC// Prot Technol Int Inc, Checkerboard Sq, St Louis, Mo 63164, USA

*J Chromatogr A* 1994 **680** (2) 413

Rapid characterization of soy protein and hydrolysates by capillary electrophoresis

Young PB, Molloy AM, Scott JM, Kennedy DG// Dept Agr Nthn Ireland, Dept Biochem, Div Vet Sci, Belfast BT4 3SD, Northern Ireland

*J Liq Chromatogr* 1994 **17** (16) 3553

A rapid high-performance liquid chromatographic method for determination of homocysteine in porcine tissue

#### 4 CARBOHYDRATES

Buchanan CJ, Fry SC, Eastwood MA// Univ Edinburgh, Western Gen Hosp, Dept Med, Gastrointestinal Labs, Crewe Rd Sth, Edinburgh EH4 2XU, Scotland

*J Sci Food Agr* 1994 **66** (2) 163

The metabolism and fate of [methyl-<sup>14</sup>C] and [uronate-6-<sup>14</sup>C]pectin-labelled dietary plant cell walls in the rat

Burba M, Onken J, Lorey R// KWS Kleinwanzlebener Saatzucht AG, Postfach 1463, D-37555 Einbeck, FRG

*Zuckerindustrie* 1994 **119** (8) 623

The fluorimetric determination of reducing sugars in sugar beet using benzamide (German, English Abstract)

Dennis MJ, Massey RC, Bigwood T// MAFF-CSL Food Sci Lab, Norwich Res Pk, Colney, Norwich NR4 7UQ, England

*Analyst* 1994 **119** (9) 2057

Investigation of the sorbitol content of wines and an assessment of its authenticity using stable isotope ratio mass spectrometry

Elhardallou SB, Walker AF// Univ Gezira, Dept Food & Technol, POB 20, Wad Madani, Sudan

*Phytochem Analysis* 1994 **5** (5) 243

Phytic acid content of three legumes in the raw, cooked and fibre forms

Gallignani M, Garrigues S, De la Guardia M// \*Univ Valencia, Dept Analyt Chem, 50 Dr Moliner St, E-46100 Burjassot, Spain

*Anal Chim Acta* 1994 **296** (2) 155

Stopped flow near-infrared spectrometric determination of ethanol and maltose in beers

Klockow A, Paulus A\*, Figueiredo V, Amado R, Widmer HM// \*Ciba, Corp Analyt Res, CH-4002 Basel, Switzerland

*J Chromatogr A* 1994 **680** (1) 187

Determination of carbohydrates in fruit juices by capillary electrophoresis and high-performance liquid chromatography

Knutson CA, Grove MJ// USDA ARS, Natl Ctr Agr Utilizat Res, Peoria, IL 61604, USA

*Cereal Chem* 1994 **71** (5) 469

Rapid method for estimation of amylose in maize starches

Lieker HP, Burba M, Thielecke K// Rubinst 61, D-33739 Bielefeld, FRG

*Zuckerindustrie* 1994 **119** (8) 639

Determination of monosaccharides in beet pulp digestion liquids clarified with aluminium sulphate (German, English Abstract)

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

*Cereal Chem* 1994 **71** (5) 501

Total starch measurement in cereal products: Interlaboratory evaluation of a rapid enzymic test procedure

Mongeau R, Brassard R// Hlth & Welf Canada, Banting Res Ctr, Food Directorate, Div Nutr Res, Ottawa, Ontario, Canada K1A 0L2

*J AOAC Int* 1994 **77** (5) 1197

Comparison and assessment of the difference in total dietary fiber in cooked dried legumes as determined by five methods

Mosso C, Del Grosso R, Ferro R// Lab Sanita Publ, USSL 24, Reg Piemonte, via Leonardo da Vinci 44, I-10095 Grugliasco, Italy

*Ind Aliment* 1994 **33** (327) 648

Lactulose determination in UHT milk (Italian, English Abstract)

Quemener B, Thibault JF, Coussement P// INRA, Biochim & Technol Glucides Lab, rue de la Gerardiére, BP 527, F-44026 Nantes 03, France

*Food Sci Technol-Lebensm Wiss* 1994 **27** (1) 125

Determination of inulin and oligofructose in food products, and integration in the AOAC method for measurement of total dietary fibre

Ramachandran KN, Bose D, Gupta VK// \*Ravishankar Shukla Univ, Sch Studies Chem, Raipur 492010, India

*J Indian Chem Soc* 1994 **71** (1) 25

A new method for determination of fufural in food and beverage samples

Staempfli AA, Blank I, Fumeaux R, Fay LB// Nestec Ltd, Nestle Res Ctr, Vers-chez-les-Blanc, POB 44, CH-1000 Lausanne 26, Switzerland

*Biol Mass Spectrom* 1994 **23** (10) 642

Study on the decomposition of the Amadori compound *N*-(1-deoxy-D-fructosyl)-glycine in model systems: Quantification by fast atom bombardment tandem mass spectrometry

Stevenson A, Buchanan CJ, Eastwood MA// Univ Edinburgh, Western Gen

Hosp, Gastrointestinal Labs, Crewe Rd Sth, Edinburgh EH4 2XU, Scotland

*J Sci Food Agr* 1994 **66** (1) 111

Does the method of drying a hydrated non-starch polysaccharide affect *in vitro* analyses to predict physiological function?

#### 5 LIPIDS

Axmann B, Ebrecht A// Tierarztl Hsch Hannover, Inst Lebensmittelkunde Fleischhyg & Technol, Bischofsholer Damm 15, D-30173 Hannover, FRG

*Fleischwirtschaft* 1994 **74** (9) 1001

Androstenone: An automated method for analysing in adipose tissue of male pigs (German, English Abstract)

Battistutta F, Buiatti S, Zenarola C, Zironi R// Univ Udine, Dept Food Sci, via Marangoni 97, I-33100 Udine, Italy

*J High Res Chromatogr* 1994 **17** (9) 662

Rapid analysis of free medium chain fatty acids and related ethyl esters in beer using SPE and HRGC

Boot AJ, Speek AJ// Food Inspect Serv Amsterdam, Reg Inspectorate Hlth Protect, Hoogte Kadijk 401, 1018 BK Amsterdam, The Netherlands

*J AOAC Int* 1994 **77** (5) 1184

Determination of the sum of dimer and polymer triglycerides and of acid value of used frying fats and oils by near infrared reflectance spectroscopy

Botsoglou NA, Fletouris DJ\*, Papageorgiou GE, Vassilopoulos VN, Mantis AJ, Trakatellis AG// \*Aristotelian Univ, Sch Vet Med, Milk Hyg & Technol Lab, GR-54006 Thessaloniki, Greece

*J Agr Food Chem* 1994 **42** (9) 1931

Rapid, sensitive, and specific thiobarbituric acid method for measuring lipid peroxidation in animal tissue, food, and feedstuff samples

Classen E, Marx F, Fabricius H// Rhein Friedrich Wilhelms Univ Bonn, Inst Lebensmittelwissensch & Lebensmittel Chem, D-53115 Bonn, FRG

*Fett Wiss Technol* 1994 **96** (9) 331

Mass spectra of 4,4-dimethylloxazoline derivatives of oxo-octadecanoic acids

Cuisset B, Pradelles P, Kime DE, Kuhn ER, Babin P, Davail S, Le Menn F// Univ Bordeaux I, INRA, UA 7852, Ave Fac, F-33405 Talence, France

*Comp Biochem Physiol Pt C* 1994 **108** (2) 229

Enzyme immunoassay for 11-ketotestosterone using acetylcholinesterase as label: Application to the measurement of 11-ketotestosterone in plasma of Siberian sturgeon

Grob K, Giuffrè AM, Biedermann M, Bronz M// Kantonales Lab Zurich, CH-8030 Zurich, Switzerland

*Fett Wiss Technol* 1994 **96** (9) 341

The detection of adulteration with desterolized oils

Gunstone FD, Seth S// Univ St Andrews, Sch Chem, St Andrews KY16 9ST, Fife, Scotland

*Chem Phys Lipids* 1994 **72** (2) 119

A study of the distribution of eicosapentaenoic acid and docosahexaenoic acid between the  $\alpha$  and  $\beta$  glycerol chains in fish oils by <sup>13</sup>C-NMR spectroscopy

Hamill TW, Soliman AM// US FDA, Atlanta Ctr Nutr Anal, HFR-SE680, 60 8th St NE, Atlanta, Ga 30309, USA

*J AOAC Int* 1994 **77** (5) 1190

Determination of cholesterol by *p*-nitrobenzoate derivatization and liquid chromatography

Henderson KM, Camberis M, Simmons MH, Starrs WJ, Hardie AHM// Wallaceville Anim Res Ctr, POB 40063, Upper Hutt, New Zealand

*J Steroid Biochem Mol Biol* 1994 **50** (3-4) 189

Application of enzyme immunoassay to measure oestrone sulphate concentrations in cow's milk during pregnancy

Hori M, Sahashi Y, Koike S, Yamaoka R, Sato M// Nitto Tech Informat Ctr, 1-1-2 Shimohozumi, Ibaraki, Osaka 567, Japan

*Anal Sci* 1994 **10** (5) 719

Molecular species analysis of polyunsaturated fish triacylglycerol by high-performance liquid chromatography/fast atom bombardment mass spectrometry

Iida S, Osawa S, Yonemitsu H// Chiba Univ Hosp, Dept Lab Med, Chyuo ku, 1-8-1 Inohana, Chiba 260, Japan

*Clin Chim Acta* 1994 **228** (2) 133

A new precipitation method with magnetic separation for high-density-lipoprotein cholesterol assay

Mahungu SM, Hansen SL, Artz WE// \*Univ Illinois, Dept Food Sci, 1304 West Pennsylvania Ave, Urbana, IL 61801, USA

*J Amer Oil Chem Soc* 1994 **71** (10) 1169

Quantitation of volatile compounds in heated trilinolein by static headspace-capillary gas chromatography infrared spectroscopy mass spectrometry

Precht D, Frede E// Bundesanstalt Milchwforsch, Inst Chem & Phys, Hermann Weigmann Str 1, D-24103 Kiel, FRG

*Fett Wiss Technol* 1994 **96** (9) 324

Determination of the solid fat content in milk fat by gas chromatographic triglyceride analysis

Sanchez-Muniz FJ, Cuesta C, Garrido-Polonio MC// Univ Complutense Madrid, Fac Farm, Dept Nutr 1, Ciudad Univ, E-28040 Madrid, Spain

*Z Ernahrungswiss* 1994 **33** (1) 16

Evaluation of a sunflower oil used for frying by different analytical indexes and column and gas chromatography

- Sevanian A, Seraglia R, Traldi P, Rossato P, Ursini F, Hodis H// Univ Sth Calif, Sch Pharm, Inst Toxicol, Dept Molec Pharmacol & Toxicol, 1985 Zonal Ave, Los Angeles, Ca 90033, USA  
*Free Radical Biol Med* 1994 17 (5) 397  
 Analysis of plasma cholesterol oxidation products using gas- and high-performance liquid chromatography/mass spectrometry
- Smith EB, Barbano DM, Lynch JM// Cornell Univ, NE Dairy Foods Res Ctr, Ithaca, NY 14853, USA  
*J AOAC Int* 1994 77 (5) 1217  
 Effect of infrared analyzer homogenization efficiency on repeatability of uncorrected fat A and fat B signals
- Ulberth F// Agr Univ Vienna, Dept Dairy Res & Bacteriol, Gregor Mendel Str 33, A-1180 Vienna, Austria  
*J AOAC Int* 1994 77 (5) 1326  
 Detection of milk fat adulteration by linear discriminant analysis of fatty acid data
- Warnick GR// Pacific Biometr, Seattle, Wa, USA  
*Atherosclerosis* 1994 108 (Suppl) S171  
 Capabilities of compact analyzers for decentralized testing of lipids and lipoproteins

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- Anes JM, Beck RA\*, Brink JJ, Goldberg RJ// \*Framingham State Coll, Framingham Inst Food Sci Technol & Nutr Biochem, Framingham, Ma 01701, USA  
*J Chromatogr B-Bio Med Appl* 1994 660 (1) 180  
 Nitritocobalamin and nitrosocobalamin may be confused with sulfitecobalamin using cation-exchange chromatography
- Chen HY, Chang CF// Natl Sun Yat Sen Univ, Inst Marine Biol, Kaohsiung 804, Taiwan  
*J Nutr* 1994 124 (10) 2033  
 Quantification of vitamin C requirements for juvenile shrimp (*Penaeus monodon*) using polyphosphorylated L-ascorbic acid
- Ganiere-Monteil C, Kergeris MF, Pineau A, Blanchard B, Azoulay C, Larousse C// CHU, Hotel Dieu, Pharmacol Clin Lab, F-44035 Nantes, France  
*Ann Biol Clin Paris* 1994 52 (7-8) 547  
 Plasma determination of retinol and  $\alpha$ -tocopherol by high-performance liquid chromatography (French, English Abstract)
- Gomis DB, Arias VJE, Alvarez LEF, Alvarez MDG// Univ Oviedo, Dept Quim Fis & Analit, Julian Claveria 8, E-33006 Oviedo, Spain  
*J Chromatogr B-Bio Med Appl* 1994 660 (1) 49  
 Simultaneous determination of vitamins D<sub>3</sub>, E and K<sub>1</sub>, and retinyl palmitate in cattle plasma by liquid chromatography with a narrow-bore column

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- Adelolu SB, Young TM// Univ Western Sydney, Dept Chem, Ctr Electrochem Res & Analyt Technol, Nepean, POB 10, Kingswood, NSW 2747, Australia  
*Anal Chim Acta* 1994 296 (1) 69  
 Cathodic stripping potentiometric determination of selenium in biological and environmental materials
- Alkanani T, Friel JK\*, Jackson SE, Longerich HP// \*Mem Univ Newfoundland, Dept Biochem, St Johns, Newfoundland, Canada A1B 3X9  
*J Agr Food Chem* 1994 42 (9) 1965  
 Comparison between digestion procedures for the multielemental analysis of milk by inductively coupled plasma mass spectrometry
- Al-Saleh IA, De Vol E, Taylor A// King Faisal Specialist Hosp & Res Ctr, Dept Biol & Med Res, POB 3354, Riyadh 11211, Saudi Arabia  
*Ann Clin Biochem* 1994 31 (5) 469  
 A characterization of the blood lead concentrations in Saudi Arabian children
- Blijenberg BG, Van Eijk HG// Univ Rotterdam Hosp, Dept Clin Chem, Rotterdam, The Netherlands  
*Clin Chem* 1994 40 (10) 1988  
 Standardization and iron assays (Letter)
- Bode E, Kozik U, Lehmann H// Hannover Sch Vet Med, Inst Bot, Bunteweg 17D, D-30559 Hannover, FRG  
*Deut Tierarztl Wochenschr* 1994 101 (9) 367  
 Comparative electron microscopical studies on the process of silicification in leaves of 2 different grass species (German, English Abstract)
- Brunk S// Baptist Reg Labs, Memphis, Tn 38105, USA  
*Atom Spectrosc* 1994 15 (4) 145  
 A simplified method for serum aluminium by ICP-MS
- Cabrera C, Gallego C, Lopez MC, Lorenzo ML, Lillo E// Univ Granada, Sch Pharm, Dept Nutr & Bromatol, E-18012 Granada, Spain  
*J AOAC Int* 1994 77 (5) 1249  
 Determination of levels of lead contamination in food and feed crops
- Courtney AJ, Die DJ, Holmes MJ// Queensland Dept Primary Ind, Sth Fisheries Ctr, POB 76, Deception Bay, Qld 4508, Australia  
*Atom Spectrosc* 1994 15 (1) 1  
 Discriminating populations of the Eastern King Prawn, *Penaeus plebejus*, from different estuaries using ICP-MS trace element analysis
- Czerwenka KF, Heuss F, Teherani DK// Univ Vienna, Inst Klin Pathol, Gynak-

- opathol Abt, Waehringer Guertel 18-20, A-1090 Vienna, Austria  
*Wien Klin Wochenschr* 1994 106 (18) 590  
 Measurements of the <sup>137</sup>Ce concentration in surgical specimens of gynaecologic tumours and mother's milk, amniotic fluid, and in umbilical cords, 6 years after Chernobyl (German, English Abstract)
- Fragu P, Francese C, Omri F, Jeusset J// Inst Gustave Roussy, INSERM, Equipe Microscopie Ion, F-94805 Villejuif, France  
*Thyroid* 1994 4 (2) 203  
 Radioiodine uptake as a function of stored iodine and thyroglobulin in thyroid follicles: *In vitro* quantitative imaging approach with secondary ion mass spectrometry (SIMS) microscopy in human nontoxic goiter
- Hayashibe Y, Takeya M, Sayama Y// Mitsubishi Mat Co, Cent Res Inst, Div Analyt Chem, Kitabukuro cho, Orniya, Saitama 330, Japan  
*Anal Sci* 1994 10 (5) 795  
 Direct determination of zinc in human serum by flow injection spectrophotometric analysis
- Koirtjohann SR, Yates DA// Univ Missouri, Dept Chem, Columbia, Mo 65201, USA  
*Atom Spectrosc* 1994 15 (4) 167  
 Determination of major, minor, and trace elements in NIST biological reference materials
- Krushevka AP, Barnes RM// Univ Massachusetts, Dept Chem, Lederle Grad Res Ctr Tower, Box 34510, Amherst, Ma 01003, USA  
*J Anal Atom Spectrom* 1994 9 (9) 981  
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- Lim ST, Kasemsuwan T, Jane JL\*// \*Iowa State Univ Sci & Technol, Ctr Crops Utilizat, Dept Food Sci & Human Nutr, Ames, Ia 50011, USA  
*Cereal Chem* 1994 71 (5) 488  
 Characterization of phosphorous in starch by <sup>31</sup>P-nuclear magnetic resonance spectroscopy
- Livardjani F, Heimburger R, Lugnier AA, Jaeger A// CHU Strasbourg, Ctr Anti Poisons, Pavillon Pasteur, 1 Pl Hop, F-67000 Strasbourg, France  
*Analisis* 1994 22 (7) 365  
 Determination of mercury in urine by cold vapor atomic absorption spectrometry (French, English Abstract)
- Mazzachi RD, Mazzachi BC, Berry MN\*// \*Flinders Univ Sth Australia, Med Ctr, Dept Biochem & Chem Pathol, Bedford Pk, SA 5042, Australia  
*Eur J Clin Chem Clin Biochem* 1994 32 (9) 709  
 A manual spectrophotometric method for the measurement of serum sodium and potassium by enzyme activation
- Millerlhi NJ// USDA, BHNRC, Nutr Compos Lab, Bldg 161 BARC E, Beltsville, Md 20705, USA  
*J AOAC Int* 1994 77 (5) 1288  
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*J Anal Atom Spectrom* 1994 9 (9) 1075  
 New high-resolution inductively coupled plasma mass spectrometry technology applied for the determination of V, Fe, Cu, Zn and Ag in human serum
- Olin KL, Stearns DM, Armstrong WH, Keen CL\*// \*Univ Calif Davis, Dept Nutr, Davis, Ca 95616, USA  
*Trace Elem Electrolytes* 1994 11 (4) 182  
 Comparative retention absorption of <sup>51</sup>Cr from <sup>51</sup>Cr-chloride, <sup>51</sup>Cr-nicotinate and <sup>51</sup>Cr-picolinate in a rat model
- Poupon J, Chappuis P, Rousselet F, Deraed C// Hop Lariboisiere, Cent Biochim Lab, 2 rue A Pare, F-75010 Paris, France  
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 Aluminium determination in biological fluids by a simple technique using inductively coupled plasma spectrometry (French, English Abstract)
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- Rubio LA, Grant G, Rahman H, Dewey P, Pusztai A// Rowett Res Inst, Aberdeen AB2 9SB, Scotland  
*Anim Feed Sci Technol* 1994 49 (1-2) 93  
 Apparent absorption of Ca, P and Zn, and true absorption of <sup>65</sup>Zn in rats fed diets containing lupin (*Lupinus angustifolius*) seed meal or its fractions
- Siitonen PH, Thompson HC// US FDA, Natl Ctr Toxicol Res, Res Off, Div Chem, Jefferson, Ar 72079, USA  
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*Ann Biol Clin Paris* 1994 52 (7-8) 535  
 Multicentre evaluation of serum carbohydrate-deficient-transferrin by two chromatographic methods (French, English Abstract)

Yang Q, Penninckx W, Smeyers-Verbeke J\*// \*Free Univ Brussels, Inst Farmaceut, Laarbeeklaan 103, B-1090 Brussels, Belgium  
*J Agr Food Chem* 1994 42 (9) 1948  
 Closed-vessel microwave acid digestion of foodstuffs and trace aluminium determination by graphite furnace atomic absorption spectrometry

Zareba S// Med Acad Lublin, Fac Pharm, Dept Med Chem, Chodzki 8, PL-20039 Lublin, Poland  
*Pharmazie* 1994 49 (9) 659  
 Spectrophotometric determination of zinc in multivitamin pharmaceutical preparations with the use of azo dyes series 1,2,4-triazole (Metrian, Metriarez-γ) and benzimidazole (Biar)

Zhang JS, Wang YM, Song XH, Sun LX, Sun YZ// Univ Med Sci, Changchun 130021, Peoples Rep China  
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 A comparison of mineral element contents among different types of ginseng using inductively coupled plasma-atomic emission spectroscopy

## 8 DRUG, BIOCIDES & PROCESSING RESIDUES

Abjean JP// Ctr Natl Etud Vet & Alimentaires, Med Vet Lab, La Haute Marche Javene, F-35133 Fougeres, France  
*J AOAC Int* 1994 77 (5) 1101  
 Screening of chloramphenicol residues in pork muscle by planar chromatography

Ash M// TECRA Diagnost, POB 20, Roseville, NSW 2069, Australia  
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 International marketing of TECRA® products for detection of food contaminants

Bryce JR, Glaze LE// US FDA, Div Microanalyt Evaluat, Washington, DC 20204, USA  
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Falter R, Scholer HF// Inst Sedimentforsch, Neuenheimer Feld 236, D-69120 Heidelberg, FRG  
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Gerber HR// US FDA, Div Planning Evaluat & Management, 5600 Fishers Lane, Rockville, Md 20857, USA  
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Hadrich J, Rieger S// Tierhyg Inst, Moosweiher 2, D-79108 Freiburg, FRG  
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Hardy CL, Hurburgh CR// Iowa State Univ Sci & Technol, Ames, Ia 50011, USA  
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Kramer PM, Li QX, Hammock BD// Univ Calif Davis, Dept Entomol, Davis, Ca 95616, USA  
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Lau BPY, Weber D, Andrews P// Hlth Canada, Food Res Div, Tunney's Pasture, Ottawa, Ontario, Canada K1A 0L2  
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Marvin CH, McCarry BE, Bryant DW// McMaster Univ, Dept Chem, Hamilton, Ontario, Canada L8S 4M1  
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Nam KS, King JW// USDA ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res Unit, 1815 Nth Univ St, Peoria, Il 61604, USA  
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Parks OW, Maxwell RJ// USDA ARS, Eastern Reg Res Ctr, 600 East Mermaid Lane, Philadelphia, Pa 19118, USA  
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Pfaffenberger B, Huhnerfuss H\*, Gehrcke B, Hardt I, Konig WA, Rimkus G// \*Univ Hamburg, Inst Organ Chem 1, Martin Luther King Pl 6, D-20146 Hamburg, FRG  
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Smedley MD// US FDA, Ctr Vet Med, Div Residue Chem, Beltsville, Md 20705, USA  
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Smith IR, Marchant B, Van den Heuvel MR, Clemons JH, Frimeth J// Ontario

Minis Environm & Energy, Program Dev Branch, 40 St Clair Ave West, Toronto, Ontario, Canada M4V 1M2

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Steinwandter H// Hess Landwirtschaftl Versuchsanstalt, Rheinstr 91, D-64295 Darmstadt, FRG

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Steinwandter H// Address as above.

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Friedman M, Levin CE, McDonald GM// USDA ARS, Western Reg Res Ctr, Food Safety & Hlth Res Unit, 800 Buchanan St, Albany, Ca 94710, USA

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Gucci PMB, Serse AP, Coccia AM, Tubaro A, Della Loggia R, Gianna R, Bruno M\*, Volterra L// \*Ist Super Sanita, Environm Hyg Lab, Viale Regina Elena 299, I-00161 Rome, Italy

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Ikediobi CO, Terry DE, Ukoha AI// Florida A&M Univ, Coll Arts & Sci, Dept Chem, Tallahassee, FL 32307, USA

*J Food Biochem* 1994 18 (1) 17

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Khazaal K, Boza J, Orskov ER// Rowett Res Inst, Bucksburn AB2 9SB, Aberdeen, Scotland

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Locke SJ, Thibault P// \*Nat'l Res Council, Atlantic Reg Lab, Inst Marine Biosci, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1

*Anal Chem* 1994 66 (20) 3436

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Maragos CM, Richard JL// USDA ARS, Nat'l Ctr Agr Utilizat Res, Mycotoxin Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA

*J AOAC Int* 1994 77 (5) 1162

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Matsui T// Univ Tokyo, Fac Agr, Marine Biochem Lab, Bunkyo ku, Tokyo 113, Japan

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Roger A, Pena M, Botey J\*, Esecverri JL, Marin A// \*Diagonal 347, E-08037 Barcelona, Spain

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Sarwar G, Botting HG// Hlth & Welf Canada, Hlth Protect Branch, Food Directorate, Banting Bldg Tunney's Pasture, Ottawa, Ontario, Canada K1A 0L2

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Shelby RA, Rottinghaus GE, Minor HC// Auburn Univ, Dept Plant Pathol, Auburn, AL 36849, USA

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Stochmal A, Oleszek W// \*Inst Soil Sci & Plant Cultivat, Dept Biochem, Osada Palacowa, PL-24-100 Pulawy, Poland

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Tang XJ, Brewer CF, Saha S, Chernushevich I, Ens W, Standing KG// Albert Einstein Coll Med, Dept Biochem, 1300 Morris Pk Ave, Bronx, NY 10461, USA

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Waghorn GC, Latch GCM, Rolston MP// Agres Grasslands, Private Bag 11008, Palmerston North, New Zealand

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Xu YC, Mirocha CJ, Xie W// Univ Minnesota, Dept Plant Pathol, St Paul, Mn 55108, USA

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Yeoh HH, Tan CKC// Nat'l Univ Singapore, Dept Bot, Kent Ridge, Singapore 0511, Singapore

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Desai AD, Hirsch A, Muir LA// AL Labs Inc, 400 State St, Chicago Hts, IL 60411, USA

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Dugar SM, Leibowitz JN, Dyer RH// US Bur Alcohol Tobacco & Firearms, Nat'l Lab Ctr, 1401 Res Blvd, Rockville, Md 20850, USA

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Nobrega JD, Fatibello O, Vieira ID// Univ Fed Sao Carlos, Dept Quim, Caixa Postal 676, BR-13560-905 Sao Carlos, SP, Brazil

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Rezende MO, Mottola HA// \*Oklahoma State Univ, Dept Chem, Stillwater, Ok 74078, USA

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Suzuki S, Shirao M, Aizawa M, Nakazawa H, Sasa K, Sasagawa H// Nat'l Inst Publ Hlth, Minato ku, 6-1 Shirokanedai 4-chome, Tokyo 108, Japan

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Hansen-Moller J, Andersen JR// Danish Res Inst Meat Res, Maglegardsvej 2, DK-4000 Roskilde, Denmark  
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Heikes DL// US FDA, Total Diet Res Ctr, POB 15905, Lenexa, Ks 66285, USA

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Li NJ, Endo H, Hayashi T, Fujii T, Takai R, Watanabe E// Tokyo Univ Fish, Dept Food Sci & Technol, 4-5-7 Konan, Minato ku, Tokyo 108, Japan

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Norton RA// USDA ARS, MWA, Natl Ctr Agr Utilizat Res, Peoria, Il 61604, USA

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Umamo K, Hagi Y, Tamura T, Shoji A, Shibamoto T\*// \*Univ Calif Davis, Dept Environm Toxicol, Davis, Ca 95616, USA

*J Agr Food Chem* 1994 42 (9) 1888

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Yang XG, Peppard T// Givaudan Roure Corp, Div Flavor, 100 Delawanna Ave, Clifton, NJ 07015, USA

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Carlsson J, Bergstrom J// Vet Inst, Expt Stn, POB 234, S-53223 Skara, Sweden  
*Acta Vet Scand* 1994 35 (1) 67

The diurnal variation of urea in cows milk and how milk fat content, storage and preservation affects analysis by a flow injection technique

Clark DH, Short RE// USDA ARS, Logan, Ut 84322, USA

*J Anim Sci* 1994 72 (4) 925

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Hotsubo T, Nagata N, Shimada M, Yoshida K, Fujinaga K, Chiba S// Sapporo Med Univ, Sch Med, Dept Pediat, Chuo ku, S1, W16, Sapporo, Hokkaido 060, Japan

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Huidobro JF, Rea ME, De Andrade PCB, Sanchez MP, Sancho MT, Muniategui S, Simal-Lozano J// Univ Santiago, Fac Farm, Area Nutr & Bromatol, E-15706 Santiago, Spain

*J Agr Food Chem* 1994 42 (9) 1975

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Meetschen U, Schreiber W// Bundesforsch Sanstalt Fischerei, Inst Biochem & Technol, Palmalle 9, D-22767 Hamburg, FRG

*Arch Lebensm-Hyg* 1994 45 (1) 14

Comparison of 2 methods for the determination of drained weight (net weight) of packs with separately deep frozen and water ice glazed fish, crab and mollusks. II. Results with fish fillets, mollusks and crab (German, English Abstract)

Moesgaard B, Quistorff B\*, Christensen VG, Therkelsen I, Jorgensen PF// \*Royal Vet & Agr Univ, Dept Anat & Physiol, DK-1870 Copenhagen, Denmark

*Meat Sci* 1995, 39 (1) 43

Differences of post-mortem ATP turnover in skeletal muscle of normal and heterozygote malignant-hyperthermia pigs: Comparison of <sup>31</sup>P-NMR and analytical biochemical measurements

Reuter G// Deutsch Vet Med Gesell, Brummerstr 10, D-14195 Berlin, FRG

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Rodgers P// Address not available.

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Sharma NK, Srivastava AK, Gill JPS, Joshi DV// Univ Nottingham, Dept Appl Biochem & Food Sci Food Microbiol, Sutton Bonington Campus, Loughborough LE12 5RD, Leics, England

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Bailey RG, Nursten HE, McDowell I// Univ Reading, Dept Food Sci & Technol, Reading RG6 2AP, England

*J Sci Food Agr* 1994 66 (2) 203

A liquid chromatography-mass spectrometry study of a black tea liquor using the plasmaspray interface

Guerrero MI, Heredia FJ, Troncoso AM\*// \*Univ Sevilla, Fac Farm, Dept Bioquim Bromatol & Toxicol, E-41012 Seville, Spain

*J Sci Food Agr* 1994 66 (2) 209

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Hareland GA// USDA ARS, Hard Red Spring & Durum Wheat Qual Lab, Cereal Crops Res, POB 5677, Fargo, ND 58105, USA

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Hills BP, Le Floc'h G// AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Colney, Norwich NR4 7UA, England

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Hornero-Mendez D, Garrido-Fernandez A\*// \*CSIC, Inst Grasa & Derivados, Dept Biotecnol Alimentos, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain

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Kawano T, Shimokawa K// Miyazaki Univ, Fac Agr, Miyazaki 88921, Japan

*J Jpn Soc Hort Sci* 1994 63 (2) 453

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Kemsley EK, Belton PS, McCann MC, Ttofis S, Wilson RH, Delgadillo I// AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England

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Mazza G, Oomah BD\*// \*Agr & Agri Food Canada, Res Stn, Crops Utilizat Lab, Morden, MB, Canada R6M 1Y5

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Sen A, Bergvinson D, Miller SS, Atkinson J, Fulcher RG, Arnason JT\*// \*Univ Ottawa, Dept Biol, Ottawa, Ontario, Canada K1N 6N5

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Smadja J, Sing ASC, Gaydou EM// Univ Reunion, Chim Organ Lab, 15 ave Rene Cassin, 97715 St Denis Messag 9, Reunion, France

*Food Sci Technol-Lebensm Wiss* 1994 27 (1) 133

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Sugiyama J, Otake K, Hayashi S, Usui S// Natl Food Res Inst, Instrumentat Engn, Tsukuba, Ibaraki, Japan

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Terrill TH, Waghorn GC, Woolley DJ, McNabb WC, Barry TN// Agres Grasslands, Private Bag 11008, Palmerston North, New Zealand

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West KJ, Rauch P// Univ Wisconsin, Whitewater, Wi 53190, USA

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Yamauchi K, Sakata K, Iwata C, Yagi A, Ina K// Shizuoka Univ, Dept Appl Biol Chem, 836 Ohya, Oya, Shizuoka 422, Japan

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