

# Bibliography of analytical, nutritional and clinical methods

(Five weeks journals - Search completed at 15th March 1995)

## 1 BOOKS, REVIEWS & SYMPOSIA

*Analyst* 1994 119 (12) 2519

II International Symposium on Hormone and Veterinary Drug Residue Analysis, Oud-St-Jan, Bruges, Belgium, May 31-June 3, 1994

*Biol Tr Elem Res* 1994 43-5

Special issue: Proceedings of the International Conference on Nuclear Analytical Methods in the Life Sciences 1994

Campanella L// Univ Rome La Sapienza, Dept Chem, Rome, Italy

*Life Chem Rep* 1994 11 (2) 309

Applications of biosensors to food analysis

Cornelis R, Sabbioni E, Van der Venne MT// State Univ Ghent, Analyt Chem Lab, Proeftuinstra 86, B-9000 Ghent, Belgium

*Sci Total Environ* 1994 158 (1-3) 191

Trace element reference values in tissues from inhabitants of the European Community. VII. Review of trace elements in blood, serum and urine of the Belgian population and critical evaluation of their possible use as reference values

Hamilton EI, Sabbioni E, Van der Venne MT// Phoenix Res Lab, Tavistock PL19 0QJ, Devon, England

*Sci Total Environ* 1994 158 (1-3) 165

Element reference values in tissues from inhabitants of the European Community. VI. Review of elements in blood, plasma and urine and a critical evaluation of reference values for the United Kingdom population

Mascini M// Univ Florence, Dept Publ Hlth Epidem & Envir Anal Chem, Florence, Italy

*Life Chem Rep* 1994 11 (2) 289

Biosensors for food freshness

Munar M, Bussey J, Chan S, Day T, Gualdoni P, Hassinger T, Herbert J, Jones D, Kuske D, Laycock G et al// ADM Malting Co, Milwaukee, WI, USA

*J Amer Soc Brew Chemist* 1994 52 (4) 186

Review of determination of  $\beta$ -glucans by fluorescence

Rao BSN// 11-4 M Block, Hyderabad 500007, Andhra Pradesh, India

*J Food Sci Technol-Mysore* 1994 31 (5) 353

Methods for the determination of bioavailability of trace metals: A critical evaluation (Review)

Robards K, Antolovich M// Charles Sturt Univ, Sch Sci & Technol, POB 588, Wagga Wagga, NSW 2678, Australia

*Analyst* 1995 120 (1) 1

Methods for assessing the authenticity of orange juice: A review

## 2 GENERAL

Mazzei F, Botre F, Lorenti G, Mele G, Vinci G, Botre C// Univ Rome La Sapienza, Dept Chem Technol Biol Active Subs, Rome, Italy

*Life Chem Rep* 1994 11 (2) 385

Plant tissue electrodes: "Partially disposable" biosensors for the determination of nutrients and toxicants in food

Mizrahi A, Galili N, Rosenhouse G// Agr Res Org, Volcani Ctr, Inst Agr Engn, POB 6, IL-50250 Bet Dagan, Israel

*Food Technol* 1994 48 (12) 68

Determining quality of fresh products by ultrasonic excitation (Overview)

Takeuchi T, Karube I// Hiroshima City Univ, Fac Informat Sci, 151-5 Otsuka, Numata cho, Asaminami ku, Hiroshima 731-31, Japan

*Life Chem Rep* 1994 11 (2) 279

Biosensors for food analysis

Voudouris N, Hayakawa K\*// \*Rutgers State Univ, Cook Coll, New Jersey Agr Exptl Stn, Dept Food Sci, POB 231, New Brunswick, NJ 08903, USA

*Food Sci Technol-Lebensm Wiss* 1994 27 (6) 522

Simultaneous determination of thermal conductivity and diffusivity of foods

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.

using a point heat source probe: A theoretical analysis

Yoshino N, Nii Y, Hirata T// Tokushima Prefectural Ind Technol Ctr, 11-2 Saika cho, Tokushima 770, Japan

*J Jpn Soc Food Sci Technol* 1994 41 (12) 865

A separation system of nitrogen, oxygen, carbon dioxide and argon by capillary gas chromatography and its application to in-package atmosphere (Japanese, English Abstract)

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Ala-Korpela M, Korhonen A, Keisala J, Horkko S, Korpi P, Ingman LP, Jokisaari J, Savolainen MJ, Kesaniemi YA// Univ Oulu, Dept Phys, SF-90570 Oulu, Finland

*J Lipid Res* 1994 35 (12) 2292

$^1\text{H}$ -NMR-based absolute quantitation of human lipoproteins and their lipid contents directly from plasma

Atwal AS, Blais L, Jenkins KJ// Agr & Agrifood Canada, Res Branch, Ctr Food & Anim Res, Ottawa, Ontario, Canada K1A 0C6

*J Liq Chromatogr* 1995 18 (3) 579

Direct determination of apolipoproteins in plasma by high-performance liquid chromatography

Bartelt J, Bergner H, Drochner W, Kijora C, Gotz KP// Humboldt Univ Berlin, Fak Landwirtschaftlich Gartner, Inst Grundlagen Nutztierwissenschaft, D-10115 Berlin, Germany

*Arch Anim Nutr* 1994 46 (4) 305

Investigations about the influence of a different protein and fibre intake on the endogenous protein flux at the ileum of  $^{15}\text{N}$ -labelled pigs

Biasiolo M, Bertazzo A, Costa C, Beghetto A, Allegri G\*// \*Univ Padova, Dept Pharmaceut Sci, Padua, Italy

*Food Chem* 1995 52 (1) 87

Determination of nonprotein tryptophan in yogurts by selective fluorescence and HPLC

Boerma GJM, De Brujin AM, Van Teunenbroek A// Sophia Children's Univ Hosp, Dept Clin Chem, Dr Molewaterplein 60, 3015 GJ Rotterdam, The Netherlands

*Eur J Clin Chem Clin Biochem* 1994 32 (12) 923

Reference values for apolipoprotein A-I and apolipoprotein B in serum still depend on choice of assay techniques

Cano MD, Gonzalvo C, Scheen AJ, Castillo MJ\*// \*Univ Granada, Fac Med, Dept Fisiol, Serv Bioquim Clin, Avenida Madrid s/n, E-18071 Granada, Spain

*Ann Biol Clin Paris* 1994 52 (9) 657

Measurement of apolipoproteins B and A by radial immunodiffusion: Methodological assessment and clinical applications

Cubadda R, Carcea M// Univ Molise, Dept Food Sci Technol & Microbiol, Campobasso, Italy

*Ind Aliment* 1994 (Suppl 4) 15

Evaluation of gluten strength in durum wheat and semolina by rapid methods (Italian, English Abstract)

De Vrese M, Middendorf K, Hagermeister H// Bundesanstalt Milchforsch, Inst Physiol & Biochem Ernahrung, Hermann Weigmann Str 1, D-24103 Kiel, Germany

*Z Ernahrungswiss* 1994 33 (4) 310

Prevention of amino acid racemization during guanidination: A prerequisite for measurement of protein digestibility by homoarginine labeling (German, English Abstract)

Fonteche J, Swaisgood HE// CSIC, Inst Frio, Ciudad Univ s/n, E-28040 Madrid, Spain

*J Dairy Sci* 1994 77 (12) 3545

Interaction of sucrose esters with skim milk proteins as characterized by affinity chromatography

Granelli K, Bjorck L, Appelqvist LA// Swedish Univ Agr Sci, Dept Food Sci,

- POB 7051, S-75007 Uppsala, Sweden  
*J Sci Food Agr* 1995 67 (1) 85
- The variation of superoxide dismutase (SOD) and xanthine oxidase (XO) activities in milk using an improved method to quantitate SOD activity  
 Johnson AM, Ledue TB, Palomaki GE, Craig WY// Moses Cone Mem Hosp, 1200 Nth Elm St, Greensboro, NC 27401, USA  
*Clin Chim Acta* 1994 231 (1) 89
- Effect of storage at -70°C on immunoturbidimetric assays for apolipoproteins A-1 and B  
 Kuzyk M, Dimos A, Palmer MV// Australian Food Res Inst, Dept Agr Victoria, Private Bag 16, Werribee, Vic 3030, Australia  
*Aust J Dairy Technol* 1994 49 (2) 86
- Evaluation of a direct method for the determination of true protein content in milk by Kjeldahl analysis  
 Leus FR, Leerink CB, Prins J, Van Rijn HJM\*// \*Univ Utrecht Hosp, Dept Clin Chem, Rm G03550, POB 85500, 3508 GA Utrecht, The Netherlands  
*Clin Biochem* 1994 27 (6) 449
- Influence of apolipoprotein(a) phenotype on lipoprotein(a) quantification: Evaluation of three methods  
 Mascaros AF, Collar C\*// \*CSIC, Inst Agroquim & Tecnol Alimentos, Cereales Lab, Jaime Roig 11, E-46010 Valencia, Spain  
*Rev Espan Cien Tecnol Aliment* 1994 34 (5) 507
- Protein electrophoretic pattern and breadmaking performance of wheat bread doughs and bread started with pure and associated cultures of yeast and lactic acid bacteria  
 Neumann GM, Condon R, Thomas I, Polya GM\*// \*La Trobe Univ, Sch Biochem, Bundoora, Vic 3083, Australia  
*BBA-Protein Struct Mol Enzym* 1994 1209 (2) 183
- Purification and sequencing of a family of wheat lipid transfer protein homologues phosphorylated by plant calcium-dependent protein kinase  
 Palleschi G, Bertocchi P, Compagnone D, Lavagnini MG, Moscone D, Volpe G// Univ Rome Tor Vergata, Dept Sci Chem Technol, Rome, Italy  
*Life Chem Rep* 1994 11 (2) 419
- Electrochemical biocells for continuous monitoring of amino acids in food  
 Perez AS, Zamarreno MMD, Nieves MBT, Mendez JH// Univ Salamanca, Fac Quim, Dept Quim Analit Nutr & Bromatol, E-37008 Salamanca, Spain  
*Analyst* 1995 120 (1) 139
- Study of the electrocatalytic effect of casein on the polarographic reduction of nickel(II). Determination of total proteins in milk by polarographic chronoamperometry  
 Pranke A, Chan S, Coonan V, Gualdoni P, Joyce M, Laycock G, Schwartz P, Munar M// Address not available.  
*J Amer Soc Brew Chemist* 1994 52 (4) 175
- $\alpha$ -Amylase and diastatic power in malt by automated flow analysis  
 Ramoni R, Fermi P, Bussolati L, Grolli S, Donofrio G, Bignetti E// Univ Parma, Inst Vet Biochem, Parma, Italy  
*Life Chem Rep* 1994 11 (2) 357
- Application of endoproteases to biosensor technology  
 Reichardt W, Muller J, Muller S, Eckert B// Thuringer Landesanstalt Landwirtschaft, Tierzucht Haltung & Ernährung Abt, Rennsteig 3, D-99817 Claustberg, Germany  
*Fleischwirtschaft* 1994 74 (12) 1327
- Beef and pork: Direct determination of connective-tissue-protein-free pure protein content (German)  
 Schubert R, Flachowsky G, Bochroder B// Univ Jena, Fak Biol Pharmazeut, Inst Ernährung & Umwelt, Dornburger Str 24, D-07743 Jena, Germany  
*Arch Anim Nutr* 1994 46 (4) 367
- $^{15}\text{N}$ -Flow after in sacco incubation and feeding of untreated or with  $^{15}\text{N}$ -horse urine treated wheat straw in sheep and goat  
 Vatsala CN, Rao PH// Cent Food Technol Res Inst, Mysore 570013, Karnataka, India  
*Cereal Chem* 1994 71 (6) 635
- Rapid determination of dry gluten by microwave (Note)  
 Verges B, Rader D, Schaefer J, Zech L, Kindt M, Fairwell T, Gambert P, Brewer HB// Hop Bocage, Blvd Marechal Lattre Tassigny, F-21000 Dijon, France  
*J Lipid Res* 1994 35 (12) 2280
- In vivo* metabolism of apolipoprotein A-IV in severe hypertriglyceridemia: A combined radiotracer and stable isotope kinetic study  
 Berth G, Dautzenberg H, Rother G// Univ Trondheim, Inst Biotechnol, N-7034 Trondheim, Norway  
*Carbohydr Polym* 1994 25 (3) 177
- Static light scattering technique applied to pectin in dilute solution. Part I. Reliability of experiments and model calculations  
 Berth G, Dautzenberg H, Rother G// Address as above.  
*Carbohydr Polym* 1994 25 (3) 187
- Static light scattering technique applied to pectin in dilute solution. Part II. The effects of clarification  
 Berth G, Dautzenberg H, Hartmann J// Address as above.  
*Carbohydr Polym* 1994 25 (3) 197
- Static light scattering technique applied to pectin in dilute solution. Part III. The tendency for association  
 Bilitewski U// Gesellschaft Biotechnol Forschung mbH, Dept Enzyme Technol, Braunschweig, Germany  
*Life Chem Rep* 1994 11 (2) 315
- Disposable enzyme electrodes for food analysis  
 Blatny P, Kvasnicka F, Kenndler E// Univ Vienna, Inst Analyt Chem, Wahringerstr 38, A-1090 Vienna, Austria  
*J Agr Food Chem* 1995 43 (1) 129
- Determination of phytic acid in cereal grains, legumes, and feeds by capillary isotachophoresis  
 De Cindio B, Correra S, Hoff V// Univ Naples, Dept Chem Engn, Pl Teccio, I-80125 Naples, Italy  
*J Food Engr* 1995 24 (3) 405
- Low temperature sugar-water equilibrium curve by a rapid calorimetric method  
 Fischer M, Amado R\*// \*ETH Zentrum, Swiss Fed Inst Technol, Dept Food Sci, CH-8092 Zurich, Switzerland  
*Carbohydr Polym* 1994 25 (3) 161
- Changes in the pectic substances of apples during development and postharvest ripening. Part I. Analysis of the alcohol insoluble residue  
 Fischer M, Arrigoni E, Amado R\*// \*Address as above.  
*Carbohydr Polym* 1994 25 (3) 167
- Changes in the pectic substances of apples during development and postharvest ripening. Part II. Analysis of the pectic fractions  
 Kawabata A, Takase N, Miyoshi E, Sawayama S, Kimura T, Kudo K// Tokyo Univ Agr & Technol, Fac Agr, Dept Nutr, Setagaya ku, 1-1-1 Sakuragaoka, Tokyo 156, Japan  
*Starch* 1994 46 (12) 463
- Microscopic observation and X-ray diffractometry of heat moisture-treated starch granules  
 Mochabe F, Torline P, Axcell B// Sth African Breweries, Dept Res & Dev, Div Beer, POB 782178, Sandton 2146, Rep Sth Africa  
*J Amer Soc Brew Chemist* 1994 52 (4) 145
- A novel and rapid method for the determination of glycogen in pitching yeasts  
 Ohtsuka A, Watanabe T, Suzuki T// Tokyo Univ Fisheries, Dept Food Sci & Technol, 4-5-7 Konan, Minato ku, Tokyo 108, Japan  
*Carbohydr Polym* 1994 25 (2) 95
- Gel structure and water diffusion phenomena in starch gels studied by pulsed field gradient stimulated echo NMR  
 Onda T, Abe H, Matsunaga A, Komiyama Y, Kawano S// Yamanashi Ind Technol Ctr, Appl Biotechnol Sect, 2094 Otsu cho, Kofu, Yamanashi 400, Japan  
*J Jpn Soc Food Sci Technol* 1994 41 (12) 886
- Analysis of gelatinization of starch by near infrared spectroscopy (Japanese, English Abstract)  
 Onda T, Tsuji M, Komiyama Y// Yamanashi Ind Technol Ctr, 2094 Otsu cho, Kofu, Yamanashi 400, Japan  
*J Jpn Soc Food Sci Technol* 1994 41 (12) 908
- Possibility of nondestructive determination of sugar content, acidity and hardness of plum fruit by near infrared spectroscopy (Japanese, English Abstract)  
 Politz ML, Timpa JD, Wasserman BP\*// \*Rutgers State Univ, Cook Coll, Dept Food Sci, New Jersey Agr Expt Stn, New Brunswick, NJ 08903, USA  
*Cereal Chem* 1994 71 (6) 532
- Quantitative measurement of extrusion-induced starch fragmentation products in maize flour using nonaqueous automated gel-permeation chromatography  
 Qu HB, Zhang XE\*, Zhang SZ// \*Chinese Acad Sci, Wuhan Inst Virol, Wuhan 430071, Peoples Rep China  
*Food Chem* 1995 52 (2) 187
- Simultaneous determination of maltose and glucose using a dual-electrode flow injection system  
 Rogers DE, Gelroth JA, Langemeier JM, Ranhotra GS\*// \*Amer Inst Baking, Manhattan, KS, USA  
*Cereal Chem* 1994 71 (6) 578
- Evaluation of starch damage values determined enzymatically or amperometrically  
 Van Soest JHG, De Wit D, Tournois H, Vliegenthart JFG// Univ Utrecht, Biervoet Ctr, Dept Bioorgan Chem, POB 80075, 3508 TB Utrecht, The Netherlands  
*Starch* 1994 46 (12) 453
- Retrogradation of potato starch as studied by Fourier transform infrared spectroscopy  
 Watanabe M, Matsukura U, Imai T// Tohoku Natl Agr Exptl Stn, 4 Akahira, Morioka, Iwate 02001, Japan  
*J Jpn Soc Food Sci Technol* 1994 41 (12) 927
- A rapid method of presuming maximum viscosity in amylography from  $\alpha$ -

## 4 CARBOHYDRATES

- Berth G, Dautzenberg H, Rother G// Univ Trondheim, Inst Biotechnol, N-7034 Trondheim, Norway  
*Carbohydr Polym* 1994 25 (3) 177
- Static light scattering technique applied to pectin in dilute solution. Part I. Reliability of experiments and model calculations  
 Berth G, Dautzenberg H, Rother G// Address as above.  
*Carbohydr Polym* 1994 25 (3) 187

amylase activity using modified oligosaccharide (Japanese, English Abstract)  
 Williams PJ, Cynkar W, Francis IL, Gray JD, Iland PG, Coombe BG// Australian Wine Res Inst, POB 197, Glen Osmond, SA 5064, Australia  
*J Agr Food Chem* 1995 **43** (1) 121  
 Quantification of glycosides in grapes, juices, and wines through a determination of glycosyl glucose

## 5 LIPIDS

Brooke-Wavell K, Jones PRM, Norgan NG, Hardman AE// Loughborough Univ Technol, Dept Human Sci, Human Genet Res Grp, Loughborough LE11 3TU, Leics, England  
*Eur J Clin Nutr* 1995 **49** (1) 57  
 Evaluation of near infra-red interactance for assessment of subcutaneous and total body fat  
 Chavan RK, Ghole VS, Dikshit M// State Publ Hlth Lab, Poona 411001, Maharashtra, India  
*J Food Sci Technol-Mysore* 1994 **31** (5) 433  
 Quantification of qualitative Baudouin test for the detection of sesame oil  
 Dyer RG, Hetherington CS, Alberti KGMM, Laker MF// Med Sch Newcastle upon Tyne, Dept Med, Framlington Pl, Newcastle upon Tyne NE2 4HH, England  
*J Chromatogr B-Bio Med Appl* 1995 **663** (1) 1  
 Simultaneous measurement of phytosterols (campesterol and  $\beta$ -sitosterol) and 7-ketocholesterol in human lipoproteins by capillary column gas chromatography  
 Fuse T, Kusu F, Takamura K// Tokyo Univ Pharm & Life Sci, Sch Pharm, 1432-1 Horinouchi, Hachioji, Tokyo 19203, Japan  
*Bunseki Kagaku* 1995 **44** (1) 29  
 Voltammetric determination of free fatty acid content in fats and oils (Japanese, English Abstract)  
 Garnica JJP, Pierucci F, Vozzi G, Cosmi EV, Anceschi MM\*// \*Univ Roma La Sapienza, Policlin Umberto 1, Ist Clin Ginecol & Ostet 2, Piazzale Aldo Moro 5, I-00161 Rome, Italy  
*Scand J Clin Lab Invest* 1994 **54** (8) 631  
 The cholesterol to phospholipids ratio (C/PL) of the erythrocyte membrane in normotensive hypertensive pregnant and in cord blood as assessed by a simple enzymatic method  
 Gray MC, Plant AL, Nicholson JM, May WE// Howard Univ, Dept Chem, Washington, DC 20059, USA  
*Anal Biochem* 1995 **224** (1) 286  
 Microenzymatic fluorescence assay for serum cholesterol  
 Hayashi K// Hokkaido Univ, Fac Fisheries, Minato ku, Hakodate, Hokkaido 041, Japan  
*Nippon Suisan Gakkaishi* 1994 **60** (6) 787  
 Fractionation of EPA-enriched triglycerides from scallop hepatopancreas lipids by wet rendering with fish oil and column chromatography (Japanese, English Abstract)  
 Heron S, Lesellier E, Tchapla A// IUT Orsay, LETIAM, Plateau Moulon, BP 127, F-91403 Orsay, France  
*J Liq Chromatogr* 1995 **18** (3) 599  
 Analysis of triacylglycerols of borage oil by RPLC identification by cojunction  
 Leonhardt W, Pietzsch J, Julius U, Hanefeld M// Tech Univ Dresden, Med Fac Carl Gustav Carus, Dept Clin Metab Res, Klin Stoffwechselsforsch Abt, D-01307 Dresden, Germany  
*Eur J Clin Chem Clin Biochem* 1994 **32** (12) 929  
 Recovery of cholesterol and triacylglycerol in very-fast ultracentrifugation of human lipoproteins in a large range of concentrations  
 Nikkari T, Malo-Ranta U, Hiltunen T, Jaakkola O, Yla-Herttuala S// Tampere Univ, Dept Biomed Sci, SF-33101 Tampere, Finland  
*J Lipid Res* 1995 **36** (1) 200  
 Monitoring of lipoprotein oxidation by gas chromatographic analysis of hydroxy fatty acids  
 Nourooz-Zadeh J, Tajaddini-Sarmadi J, Birlouez-Aragon I, Wolff SP// Univ Coll London, Sch Med, Dept Med, Div Clin Pharmacol & Toxicol, 5 Univ St, London WC1E 6JJ, England  
*J Agr Food Chem* 1995 **43** (1) 17  
 Measurement of hydroperoxides in edible oils using the ferrous oxidation in xylenol orange assay  
 Schafer K// Free Univ Berlin, Fachbereich Vet Med, Inst Tierernahrung, Brummerstr 34, D-14195 Berlin, Germany  
*Chromatographia* 1994 **39** (11-12) 706  
 Analysis of short chain fatty acids from different intestinal samples. I. By packed column gas chromatography  
 Sidossis LS, Coggan AR, Gastaldelli A, Wolfe RR\*// \*Univ Texas, Med Branch, Shriners Burns Inst, Metab Unit, 815 Market St, Galveston, Tx 77555, USA  
*J Clin Invest* 1995 **95** (1) 278  
 Pathway of free fatty acid oxidation in human subjects implications for tracer

studies  
 Smith MC, Webster CL, Sherma J, Fried B// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA  
*J Liq Chromatogr* 1995 **18** (3) 527  
 Determination of neutral lipids in regular and lowfat eggs by high performance TLC with densitometry  
 Spanos GA, Schwartz SJ\*, Van Breemen RB, Huang CH// \*Nth Carolina State Univ, SE Dairy Foods Res Ctr, Dept Food Sci, Box 7624, Raleigh, NC 27695, USA  
*Lipids* 1995 **30** (1) 85  
 High-performance liquid chromatography with light-scattering detection and desorption chemical-ionization tandem mass spectrometry of milk fat triacylglycerols  
 Staby A, Borch-Jensen C, Balchen S, Mollerup J\*// \*Tech Univ Denmark, Dept Chem Engn, Bldg 229, DK-2800 Lyngby, Denmark  
*Chromatographia* 1994 **39** (11-12) 697  
 Quantitative analysis of marine oils by capillary supercritical fluid chromatography  
 Vetter W, Walther W// F Hoffmann La Roche & Co Ltd, Div Pharma, Preclin Res, CH-4002 Basel, Switzerland  
*J Chromatogr A* 1994 **686** (1) 149  
 Pyrrolidides as derivatives for the determination of the fatty acids of triacylglycerols by gas chromatography

## 6 VITAMINS & CO-FACTORS

Balyatinskaya LN, Klyuchnikova NV, Sverguzova SV, Filimonov VN, Kolosova IF// IA Grishmanov Construct Mat Technol Inst, Belgorod, Russia  
*Zh Fiz Khim* 1994 **68** (10) 1839  
 Application of high-performance liquid chromatography for analytical control of products of microbiological synthesis of citric acid and group B vitamins (Russian)  
 Bergaentzle M, Arella F, Bourguignon JB, Hasselmann C\*// \*Fac Pharm, Dept Sci Aliment, Rte Rhin, F-67400 Illkirch, France  
*Food Chem* 1995 **52** (1) 81  
 Determination of vitamin B<sub>6</sub> in foods by HPLC: A collaborative study  
 Chang YS, Wu CH, Chang RJ, Shiuan D\*// \*Natl Sun Yat Sen Univ, Dept Biol, Kaohsiung 80424, Taiwan  
*J Biochem Biophys Meth* 1994 **29** (3-4) 321  
 Determination of biotin concentration by a competitive enzyme-linked immunosorbent assay (ELISA) method  
 Du QH, Zhang TY, Ito Y// Chinese Acad Agr Sci, Tea Res Inst, Hangzhou 310008, Peoples Rep China  
*J Liq Chromatogr* 1995 **18** (1) 181  
 Purification of 25-hydroxy-cholecalciferol from irradiation of cholesta-5,7-diol by high-speed countercurrent chromatography  
 Esteve MJ, Farre R, Frigola A, Lopez JC, Romera JM, Ramirez M, Gil A// Univ Valencia, Fac Pharm, Nutr & Food Chem, Avda Vicente Andres Estelles s/n, E-46100 Burjassot, Valencia, Spain  
*Food Chem* 1995 **52** (1) 99  
 Comparison of voltammetric and high-performance liquid chromatographic methods for ascorbic acid determination in infant formulas  
 Fie M, Zee JA, Amiot JJ// Univ Laval, Dept Nutr Humaine & Consommation, St Foy, Quebec, Canada G1V 7P4  
*Sci Aliment* 1994 **14** (6) 763  
 Separation and quantitative determination of B<sub>12</sub> vitamers in dairy products by an high-performance liquid chromatography radioassay method (French, English Abstract)  
 Filimonov VN, Kolosova IF, Balyatinskaya LN// DI Mendeleev Chem Technol Univ, Moscow, Russia  
*Zh Fiz Khim* 1994 **68** (10) 1835  
 Division of synthetic fat-soluble vitamins via multi-column normal-phase high-performance liquid chromatography (Russian)  
 Hamano T, Mitsuhashi Y, Kojima N, Aoki N, Semma M, Ito Y, Oji Y// Publ Hlth Res Inst Kobe City, Div Food Chem, Chuo ku, Minatojima Nakamachi, Kobe, Hyogo 650, Japan  
*Analyst* 1995 **120** (1) 135  
 Enzymic method for the amperometric determination of nicotinic acid in meat products  
 Kolosova IF, Filimonov VN, Balyatinskaya LN// DI Mendeleev Chem Technol Univ, Moscow, Russia  
*Zh Fiz Khim* 1994 **68** (10) 1832  
 Division of synthetic vitamins of group B by the ion-pair high performance liquid chromatography technique (Russian)  
 Lewis MJ// Nth Manchester Grp Hosp, Dept Haematol, Delaneys Rd, Manchester M8 8RB, England  
*Clin Lab Haematol* 1994 **16** (4) 312  
 Non-radioactive assays of vitamin B<sub>12</sub> and folate  
 Motonaka J, Kiyoku H, Ikeda S, Tanaka N// Univ Tokushima, Fac Engn, Dept

- Chem Sci & Technol, 2-1 Minami Josanjima, Tokushima 770, Japan  
*Bunseki Kagaku* 1995 44 (1) 35  
 Determination of DL- $\alpha$ -tocopherol utilizing the reaction with iodine (Japanese, English Abstract)
- Nevado JJB, Pulgarin JAM, Laguna MAG// Univ Castilla La Mancha, Fac Quim, Dept Quim Anal & Tecnol Alimentos, Campus Univ, E-13071 Ciudad Real, Spain  
*Analyst* 1995 120 (1) 171  
 Determination of pyridoxamine in urine by matrix isopotential synchronous fluorescence spectrometry
- Poon R, Chu I, Lecavalier P, Bergman A, Villeneuve DC// Hlth & Wlf Can-ada, Ctr Environm Hlth, Div Environm & Occupat Toxicol, Tunneys Pasture, Rm 315, Ottawa Ontario, Canada K1A 0L2  
*J Biochem Toxicol* 1994 9 (6) 297  
 Urinary ascorbic acid: HPLC determination and application as a noninvasive biomarker of hepatic response
- Yakushina LM, Taranova AG// Russian Acad Med Sci, Inst Nutr, Moscow, Russia  
*Zh Fiz Khim* 1994 68 (10) 1826  
 Fast method for the detection of fat-soluble vitamins in human blood serum (Russian)
- 7 TRACE ELEMENTS & MINERALS**
- Abrams SA, Wen JP, O'Brien KO, Stoff JE, Liang LK// Baylor Coll Med, USDA/ARS Childrens Nutr Res Ctr, Dept Pediat, Houston, Tx 77030, USA  
*Biol Mass Spectrom* 1994 23 (12) 771  
 Application of magnetic sector thermal ionization mass spectrometry to studies of erythrocyte iron incorporation in small children
- Baranowska I, Czernicki K, Aleksandrowicz R// Silesian Tech Univ, Dept Analyt & Gen Chem, Gliwice, Poland  
*Sci Total Environ* 1995 159 (2-3) 155  
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- Cabrera C, Madrid Y, Camara C\*// Univ Complutense Madrid, Fac Quim, Dept Quim Analit, E-28040 Madrid, Spain  
*J Anal Atom Spectrom* 1994 9 (12) 1423  
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- Cheng TP, Morris JS, Koirtyohann SR, Spate VL, Baskett CK// Univ Missouri, Dept Chem, Columbia, Mo 65211, USA  
*Nucl Instrum Meth Phys Res A* 1994 353 (1-3) 457  
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- Chuaanusorn W, St Pierre TG, Black G, Webb J, Macey DJ, Parry D// Murdoch Univ, Sch Math & Phys Sci, Perth, WA 6150, Australia  
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