

# Bibliography of analytical, nutritional and clinical methods

(Three weeks journals - Search completed at 27th Mar 1996)

## 1 BOOKS, REVIEWS & SYMPOSIA

- Delahunty CM, Piggott JR// Natl Univ Ireland, Univ Cork Coll, Dept Nutr, Cork, Rep Ireland  
*Int J Food Sci Technol* 1995 **30** (5) 555  
 Current methods to evaluate contribution and interactions of components to flavour of solid foods using hard cheese as an example (Review)
- Trojanowicz M, Hitchman ML// Warsaw Univ, Dept Chem, Pasteura 1, PL-02093 Warsaw, Poland  
*Trends Anal Chem* 1996 **15** (1) 38  
 Determination of pesticides using electrochemical biosensors
- Van Loey A, Hendrickx M, De Cordt S, Haentjens T, Tobback P// Katholieke Univ Leuven, Dept Food & Microbial Technol, B-3001 Louvain, Belgium  
*Trends Food Sci Technol* 1996 **7** (1) 16  
 Quantitative evaluation of thermal processes using time-temperature integrators (Review)

## 3 AMINO ACIDS, PROTEINS & ENZYMES

- Alegria A, Barbera R, Farre R, Ferreres M, Lagarda MJ, Lopez JC// Univ Valencia, Avda VA Estelles s/n, R-46100 Burjassot, Spain  
*J Chromatogr A* 1996 **721** (1) 83  
 Isocratic high-performance liquid chromatographic determination of tryptophan in infant formulas
- Arbaish SM, Asbi BA\*, Junainah AH, Jamilah B// \*Univ Pertanian Malaysia, Fac Food Sci & Biotechnol, 43400 UPM Serdang, Selangor, Malaysia  
*Food Chem* 1996 **55** (3) 289  
 Determination of optimum conditions for pectinesterase extraction from soursop fruit (*Annona muricata*) using response surface methodology
- El SN, Kavas A// Ege Univ, Food Engn Dept, 35100 Bornova, Izmir, Turkey  
*Food Chem* 1996 **55** (3) 221  
 Determination of protein quality of rainbow trout (*Salmo irideus*) by *in vitro* protein digestibility-corrected amino acid score (PD-CAAS)
- Folawiyo YL, Apeten RKO\*// \*Univ Leeds, Procter Dept Food Sci, Woodhouse Lane, Leeds LS2 9JT, England  
*J Sci Food Agr* 1996 **70** (2) 241  
 Effect of pH and ionic strength on the heat stability of rapeseed 12S globulin (cruciferin) by the ANS fluorescence method
- Kim KR, Kim JH, Cheong EJ, Jeong CM// Sung Kyun Kwan Univ, Coll Pharm, Suwon 440746, South Korea  
*J Chromatogr A* 1996 **722** (1-2) 303  
 Gas chromatographic amino acid profiling of wine samples for pattern recognition
- Lechner E, Wolfseder K// Forschungszentrum Milch & Lebensmittel, Inst Chem & Phys, D-85350 Freising, Germany  
*Milchwissenschaft* 1995 **50** (12) 687  
 Experiences with a polarographic method for the determination of the activity of alkaline phosphatase (ALP) in milk and cheese (German, English Abstract)
- Lookhart GL, Bean SR// USDA/ARS, US Grain Mkt Res Lab, Manhattan, KS 66502, USA  
*Cereal Chem* 1996 **73** (1) 81  
 Improvements in cereal protein separations by capillary electrophoresis: Resolution and reproducibility
- Lowe R, Anema SG, Paterson GR, Hill JP// New Zealand Dairy Res Inst, Food Sci Sect, Private Bag 11029, Palmerston North, New Zealand  
*Milchwissenschaft* 1995 **50** (12) 663  
 Simultaneous separation of the β-lactoglobulin A, B and C variants using polyacrylamide gel electrophoresis

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.

Mackness MI, Bhatnagar D, Weiringa G, M'Bewu A, Haynes B, Durrington PN// Christie Hosp, Dept Biochem, Manchester M20 4BX, England  
*Ann Clin Biochem* 1996 **33** (1) 63

A comparative study of six commercial lipoprotein(a) assays in seventeen laboratories within the British Isles

Mills ENC, Brett GM, Holden S, Kauffman JA, Tatton MJ, Morgan MRA// AFRC Inst Food Res, Norwich Lab, Dept Food Molec Biochem, Norwich Res Pk, Norwich NR4 7UA, England

*Food Agric Immunol* 1995 **7** (2) 189

Production of monoclonal antibodies to gluten proteins and their use in developing tests for gluten quality

Prin C, El-Bari N, Montagne P, Cuilliere ML, Bene MC, Faure G, Humbert G, Linden G// UFR Sci Med, Lab Immunol, BP 184, F-54505 Vandoeuvre les Nancy, France

*J Dairy Res* 1996 **63** (1) 73

Microparticle-enhanced nephelometric immunoassay for caseinomacropeptide in milk

## 4 CARBOHYDRATES

Lu S, Chen CY, Li CY// Natl Chunghsing Univ, Dept Food Sci, Taichung 40227, Taiwan

*Cereal Chem* 1996 **73** (1) 5

Gel-chromatography fractionation and thermal characterization of rice starch affected by hydrothermal treatment

Madigan D, McMurrough I, Smyth MR// Guinness Brewing Worldwide Res Ctr, Dublin 8, Rep Ireland

*J Amer Soc Brew Chemist* 1996 **54** (1) 45

Application of gradient ion chromatography with pulsed electrochemical detection to the analysis of carbohydrates in brewing

Martin GG, Hanote V, Lees M, Martin YL// Eurofins, Site Geraudiere, F-44073 Nantes 03, France

*J AOAC Int* 1996 **79** (1) 62

Interpretation of combined <sup>2</sup>H SNIF/NMR and <sup>13</sup>C SIRA/MS analyses of fruit juices to detect added sugar

Skriver A, Buchheim W, Qvist KB// Royal Vet & Agr Univ, Inst Dairy Res, Howitzvej 11, DK-2000 Frederiksberg, Denmark

*Milchwissenschaft* 1995 **50** (12) 683

Electron microscopy of stirred yoghurt: Ability of three techniques to visualize exo-polysaccharides fromropy strains

Theander O, Aman P, Westerlund E, Andersson R, Petersson D// Swedish Univ Agr Sci, Dept Chem, POB 7015, S-75007 Uppsala, Sweden

*J AOAC Int* 1995 **78** (4) 1030

Total dietary fiber determined as neutral sugar residues, uronic acid residues, and Klason lignin (The Uppsala method): Collaborative study

Wagner S, Kuhn M// Univ Hohenheim, Inst Lebensmitteltechnol, Garbenstr 25, D-7059 Stuttgart, Germany

*Deut Lebensm-Rundsch* 1996 **92** (1) 17

Determination of β-glucans in cereals (German, English Abstract)

## 5 LIPIDS

Balazs PE, Schmitz PL\*, Szuhaj BE// \*Cent Soya Co Inc, 1946 West Cook Rd, Ft Wayne, In 46818, USA

*J Amer Oil Chem Soc* 1996 **73** (2) 193

High-performance liquid chromatographic separations of soy phospholipids

Bergqvist MHJ, Kaufmann P// Univ Toronto, Banting & Best Dept Med Res, 112 Coll St, Toronto, Ontario, Canada M5G 1L6

*J Amer Oil Chem Soc* 1996 **73** (2) 211

- Analysis of cereal digalactosyldiacylglycerol molecular species by high-performance liquid chromatography  
Bloodworth BC, Harn CS, Hock CT, Boon YO// Inst Sci & Forens Med, NBC Bldg, Outram Rd, Singapore 0316, Rep Singapore  
*J AOAC Int* 1995 **78** (4) 1019
- Liquid chromatographic determination of *trans*-10-hydroxy-2-decenoic acid content of commercial products containing royal jelly  
Crook D// Natl Heart & Lung Inst, Wynn Dept Metabol Med, 21 Wellington Rd, St Johns Wood, London NW8 9SQ, England  
*Ann Clin Biochem* 1996 **33** (1) 82
- A survey of biases in the measurement of plasma lipid and lipoprotein concentrations in 32 lipid clinics in the UK  
Daft JL, Cline JK, Palmer RE, Sisk RL, Griffitt KR// US/FDA, Kansas City Dist Off, POB 15905, Lenexa, KS 66285, USA  
*J AOAC Int* 1996 **79** (1) 175
- Estimated content percentages of volatile liquids and fat extractables in ready-to-eat foods  
Davenel A, Marchal P// Dept Agr & Food Engn, 17 Ave Cucille, F-35044 Rennes, France  
*Int J Food Sci Technol* 1995 **30** (5) 655
- Rapid moisture and fat determination by pulsed NMR for monitoring drying and coating processes of extrudates  
Del Vecchio RP, Sutherland WD, Connor ML// Agr & Agri-Food Canada, Res Ctr, POB 1000A, Brandon, Manitoba, Canada R7A 5Y3  
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- A solid-phase enzyme-immunoassay for the determination of progesterone in bovine, porcine and ovine plasma  
Downey G// Teagasc, The Natl Food Ctr, Dunsinea, Castleknock, Dublin 15, Rep Ireland  
*Food Chem* 1996 **55** (3) 305
- Non-invasive and non-destructive percutaneous analysis of farmed salmon flesh by near infra-red spectroscopy  
Hron RJ, Kuk MS, Wan PJ// USDA/ARS, Sthn Reg Res Ctr, POB 19687, New Orleans, La 70179, USA  
*J Amer Oil Chem Soc* 1996 **73** (2) 199
- Quick method for estimating free gossypol in cottonseed, meats, collets, and extracted meals  
Keusgen M, Curtis JM, Ayer SW\*// \*Natl Res Council Canada, Inst Marine Biosci, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1  
*Lipids* 1996 **31** (2) 231
- The use of nicotinates and sulfoquinovosyl monoacylglycerols in the analysis of monounsaturated *n*-3 fatty acids by mass spectrometry  
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- Thermal degradation of single 7-cholesteryl acetate hydroperoxide  
Naeemi ED, Ahmad N, Al-Sharrah TK, Behbahani M// Kuwait Inst Sci Res, Cent Analyt Lab, POB 24885, Safat 13109, Kuwait  
*J AOAC Int* 1995 **78** (6) 1522
- Rapid and simple method for determination of cholesterol in processed food  
Perez-Camino MC, Moreda W, Cert A\*// \*CSIC, Inst Grasa, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain  
*J Chromatogr A* 1996 **721** (2) 305
- Determination of diacylglycerol isomers in vegetable oils by solid-phase extraction followed by gas chromatography on a polar phase  
Sessa DJ, Nelson TC, Kleiman R, Arquette JD// USDA/ARS, Natl Ctr Agr Utilizat Res, Plant Polymer Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA  
*J Amer Oil Chem Soc* 1996 **73** (2) 271
- Differential scanning calorimetry index for estimating level of saturation in transesterified wax esters  
Tava A, Cunico C, Cremona R, Piccinini E// Ist Sperimentale Colture Foraggere, V Piacenza 29, I-20075 Lodi, Italy  
*J High Res Chromatogr* 1996 **19** (1) 43
- Isomeric composition of the ester fraction from epicuticular waxes of *Festuca arundinacea* Schreb  
Thomas EL, Frost G, Barnard ML, Bryant DJ, Taylor-Robinson SD, Simbrunner J, Coutts GA, Burl M, Bloom SR, Sales KD *et al*// Hammersmith Hosp, RPMS, Steiner MRI Unit, Du Cane Rd, London W12 0HS, England  
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- An *in vivo* <sup>13</sup>C magnetic resonance spectroscopic study of the relationship between diet and adipose tissue composition  
Erdogdu G, Mark HB, Karagozler AE// Inonu Univ, Dept Chem, Malatya 44069, Turkey  
*Anal Lett* 1996 **29** (2) 221
- Voltammetric resolution of ascorbic acid and dopamine at conducting polymer electrodes  
Grancelli K, Helmersson S// Swedish Univ Agr Sci, Dept Food Sci, Box 7051, S-75007 Uppsala, Sweden  
*J Chromatogr A* 1996 **721** (2) 355
- Rapid high-performance liquid chromatographic method for determination of β-carotene in milk  
Kimura M, Kanehira K, Yokoi K// Kyoto Univ, Dept Social Med, Yoshida Sakyo ku, Kyoto 60601, Japan  
*J Chromatogr A* 1996 **722** (1-2) 295
- Highly sensitive and simple liquid chromatographic determination in plasma of B<sub>6</sub> vitamers, especially pyridoxal 5'-phosphate  
Noll GN// Univ Giessen, Inst Physiol, Aulweg 129, D-35392 Giessen, Germany  
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*J AOAC Int* 1995 **78** (5) 1173
- Improved microbiological assay for folic acid based on microtiter plating with *Streptococcus faecalis*  
Sliva MG, Sanders JK// Namsa, 2261 Tracy Rd, Northwood, Oh 43619, USA  
*J AOAC Int* 1996 **79** (1) 73
- Vitamin D in infant formula and enteral products by liquid chromatography: Collaborative study  
Sunarya, Hole M, Taylor KD// Fish Qual Control Lab, Jl Muara Baru Ujung, Penjaringan, Jakarta, Utara 14440, Indonesia  
*Food Chem* 1996 **55** (3) 215
- Methods of extraction composition and stability of vitamin A and other components in dogfish (*Squalus acanthias*) liver oil  
Takeda H, Shibuya T, Yanagawa K, Kanoh H, Takasaki M// Tokyo Med Coll, Dept Pharmacol, Shinjuku ku, 6-1-1 Shinjuku, Tokyo 160, Japan  
*J Chromatogr A* 1996 **722** (1-2) 287
- Simultaneous determination of α-tocopherol and α-tocopherolquinone by high-performance liquid chromatography and coulometric detection in the redox mode  
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*Photochem Analysis* 1996 **7** (2) 69
- Simultaneous determination of ascorbic acid and dehydroascorbic acid in plant materials by high-performance liquid chromatography

## 7 TRACE ELEMENTS & MINERALS

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*J AOAC Int* 1995 **78** (5) 1244
- Determination of long-life radiocesiums <sup>134</sup>Cs and <sup>137</sup>Cs in food by γ-ray spectrometry: Interlaboratory study  
Bintoro VP, Cantin-Esnault D, Alary J// Fac Pharmaceut Sci, Analyt Chem Lab, Domaine Merci, F-38700 La Tronche, France  
*Food Addit Contam* 1996 **13** (1) 77
- A survey of nitrate contents in Indonesian milk by enzymatic analysis  
Cabrera C, Lorenzo ML, Lopez MC// Univ Granada, Dept Nutr & Bromatol, E-18012 Granada, Spain  
*J AOAC Int* 1995 **78** (4) 1061
- Electrothermal atomic absorption spectrometric determination of cadmium, copper, iron, lead, and selenium in fruit slurry: Analytical application to nutritional and toxicological quality control  
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*Appl Radiat Isotopes* 1995 **46** (12) 1295
- Use of INAA to study Sc, Sb, Zn and Co levels of yeast cells  
Dabeka RW, McKenzie AD// Dept Hlth & Welf, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2  
*J AOAC Int* 1995 **78** (4) 897
- Survey of lead, cadmium, fluoride, nickel, and cobalt in food composites and estimation of dietary intakes of these elements by Canadians in 1986-1988  
Eeckhaoudt S, Van Grieken RE\*, Cholewa M, Legge GJF// \*Univ Instelling Antwerp, Dept Chem, Universiteitspl 1, B-2610 Antwerp, Belgium  
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- Study of aluminium-exposed fish by scanning proton microprobe analysis  
Foster LH, Sumar S// South Bank Univ, Nutr Res Ctr, London SE1 0AA, England  
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## 6 VITAMINS & CO-FACTORS

- Erdogdu G, Mark HB, Karagozler AE// Inonu Univ, Dept Chem, Malatya 44069, Turkey  
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- Hydride generation atomic absorption spectrometric (HGAAS) determination of selenium in term and preterm infant formulae available in the United Kingdom  
Golding EM, Dobson GP, Golding RM// James Cook Univ, Dept Physiol & Pharmacol, Townsville, Qld 4811, Australia  
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Hulanicki A, Godlewska B, Brzoska M// Univ Warsaw, Dept Chem, Pasteura 1, Warsaw, Poland  
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- Determination of total magnesium in biological samples using electrothermal atomic absorption spectrometry  
Kallner A// Karolinska Sjukhuset, Dept Clin Chem, Ave Klin Kemi, S-17176 Stockholm, Sweden  
*Eur J Clin Chem Clin Biochem* 1996 **34** (1) 53
- Preanalytical procedures in the measurement of ionized calcium in serum and plasma  
Lima JLFC, Rangel AOSS\*, Souto MRS// \*Univ Catolica Portuguesa, Escola Super Bioteclol, Rua Dr Antonio Bernardino de Almeida, P-4200 Oporto, Portugal  
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- Potentiometric determination of chloride in vegetables by flow injection analysis  
Lima JLFC, Rangel AOSS\*, Souto MRS// \*CEQUP, Dept Quim Fis, Rua Anibal Cunha 164, P-4050 Oporto, Portugal  
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- Simultaneous determination of potassium and sodium in vegetables by flame emission spectrometry using a flow-injection system with two dialysis units  
Masson P, Esvan JM// INRA, Stn Agron, Ctr Rech Bordeaux, BP 81, F-33883 Villenave d'Ornon, France  
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- Simultaneous determination by inductively coupled plasma spectrometry N, P, K, Ca, Cu, Mg, Fe, Mn and Zn in plant samples (French, English Abstract)  
Michalke B, Schramel P, Hasse S// GSF Forschungszentrum Umwelt, Inst Okol Chem, D-85764 Oberschleissheim, Germany  
*Mikrochim Acta* 1996 **122** (1-2) 67
- Determination of free iodide in human serum: Separation from other I-species and quantification in serum pools and individual samples  
Mimouni FB// Maimonides Hosp, Dept Pediatr, Brooklyn, NY 11219, USA  
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- Comparison of on-column and precolumn derivatization for liquid chromatographic determination of molybdenum in seawater and bovine liver  
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- Determination of chromium and molybdenum in medical foods by graphite furnace atomic absorption spectrophotometry  
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- The use of variance analysis with repeated measurements designs for the evaluation of nickel migration from stainless steel cooking pans (German, English Abstract)  
Silva EC, Araujo MCU, Honorato RS, Lima JLFC, Zagatto EAG\*, Brienza SMB// \*Univ Sao Paulo, Ctr Energia Nucl Agr, POB 96, BR-13400-970 Piracicaba, SP, Brazil  
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- Market basket and duplicate portion estimation of dietary intakes of cadmium, mercury, arsenic, copper, manganese, and zinc by Japanese adults  
Yamanishi H, Iyama S, Fushimi R, Amino N// Osaka Univ Hosp, Cent Lab Clin Invest, 2-15 Yamadaoka, Suita, Osaka 565, Japan  
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- Interference of ferritin in measurement of serum iron concentrations: Comparison by five methods  
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- Determination of thiabendazole residues in white and sweet potatoes by liquid chromatography with fluorescence detection  
Blanchflower WJ, Kennedy DG// Dept Agr Nth Ireland, Div Vet Sci, Belfast BT4 3SD, Northern Ireland  
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- Confirmation of chloramphenicol residues in eggs by gas chromatography/high-resolution mass spectrometry and comparison of quantitation with gas chromatography-electron capture detection  
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