

# Bibliography of analytical, nutritional and clinical methods

(Three weeks journals - Search completed at 5th April 1995)

## 1 BOOKS, REVIEWS & SYMPOSIA

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 Analysis of selenium in body fluids: A review
- Guardiola F, Codony R, Rafecas M, Boalilla J// Univ Barcelona, Fac Farm, Dept Ciencias Fisiol, Humanas & Nutr, Unidad Nutr & Bromatol, E-08028 Barcelona, Spain  
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 Analytical methods of oxysterol determination (Review) (Spanish, English Abstract)

## 2 GENERAL

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*J AOAC Int* 1995 78 (1) 12  
 Capillary electrophoresis: A new tool in food analysis
- Murakami H, Akiba Y\*, Horiguchi M// \*Tohoku Univ, Fac Agr, Dept Anim Sci, Tsutsumidori Amariyamachi, Aoba ku, Sendai 981, Japan  
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 A modified bioassay for energy utilization in newly hatched chicks II. Determination of feed input and procedures to estimate endogenous energy loss

## 3 AMINO ACIDS, PROTEINS & ENZYMES

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*J Dairy Res* 1995 62 (1) 89  
 Discrete phosphorylation generates the electrophoretic heterogeneity of ovine  $\beta$ -casein
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- King BJ, Lee LS, Rackemann RG, Scott PT// Queensland Dept Primary Ind, Bundaberg Res Stn, MS 108, Ashfield Rd, Bundaberg, Qld 4670, Australia  
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 Electrophoretic conditions for high resolution Citrus isozymes in polyacrylamide gel electrophoresis
- Kristiansen KR, Otte J, Zakora M, Qvist KB// Royal Vet & Agr Univ, Inst Dairy Res, Hovitzvej 11, DK-2000 Frederiksberg, Denmark  
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 Capillary electrophoresis used to monitor the enzymatic hydrolysis of caseins and the fractionation of hydrolysis products
- Maiti RK, Heredia-Rojas JA, Cazarez-Alarco NP// Univ Autonoma Nuevo Leon, Fac Ciencias Biol, Div Postgrado Apartado Postal F-16, San Nicolas de Garzas 66450, Nuevo Leon, Mexico  
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- Electrophoretic analysis of protein profile of some glossy and nonglossy *Sorghum* lines: A preliminary study
- Rolland MP, Bitti T, Besancenon P// Univ Montpellier 2, Dept Agrosources & Procedes Biol, Unite Nutr Genie Biol & Sci Aliments, F-34095 Montpellier 05, France  
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- Saputra D, Payne FA, Hicks CL// Univ Sriwijaya, Dept Agr Technol, Palembang, Indonesia  
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 Isolation of hen egg white lysozyme, ovomaxin and ovalbumin, using a quaternary ammonium bound to a highly crosslinked agarose matrix

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 Sugars and sugar products (Committee on food nutrition)
- March JG, Vilacampa AI, Grases F\*// \*Univ Balearic Isl, Dept Chem, E-07071 Palma de Mallorca, Spain  
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 Dietary fiber and complex carbohydrates (Committee on food nutrition)

## 5 LIPIDS

- Aparicio R, Morales MT// Inst Grasa, Stat & Expert Syst Lab, Avda Padre Garcia Tejero 4, Sevilla, Spain  
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 Sensitive assay for cholesterol in biological membranes reveals membrane-specific differences in kinetics of cholesterol oxidase
- Dzietzic S, Breuer O, Lund E, Diezfelus U\*// \*Huddinge Univ Hosp, Karolinska Inst, Dept Med Lab Sci & Technol, Div Clin Chem, CI62, S-14186 Huddinge, Sweden  
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 Determination of cholesterol oxidation products in human plasma by isotope dilution mass spectrometry
- Engan T, Bjerve KS, Hoe AL, Krane J// Univ Trondheim Hosp, Dept Oncol, N-7006 Trondheim, Norway

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.

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Characterization of plasma lipids in patients with malignant disease by  $^{13}\text{C}$  nuclear magnetic resonance spectroscopy and gas liquid chromatography
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*J AOAC Int* 1995 78 (1) 150  
Fats and oils (Committee on food nutrition)
- Indyk HE, Woolford DC/ Anchor Prod, POB 7, Waitoa, New Zealand  
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Enzymatic determination of free carnitine in milk and infant formulas
- Klatt LV, Mitchell BA, Smith RL/ Klatt & Klatt Associates, 635 Framington Ave, Buffalo, Mn 55313, USA  
*J AOAC Int* 1995 78 (1) 75  
Cholesterol analysis in foods by direct saponification - gas chromatographic method: Collaborative study
- McNamara JR, Cole TG, Contois JH, Ferguson CA, Ordovas JM, Schaefer EI/ \*711 Washington St, Boston, Ma 02111, USA  
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- Nielsen JH, Olsen CE, Duedahl C, Skibsted LH/ \*Royal Vet & Agr Univ, KVL, Ctr Food Res, Dept Dairy & Food Sci, Thorvaldsensvej 40, DK-1871 Frederiksberg C, Denmark  
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Isolation and quantification of cholesterol oxides in dairy products by selected ion monitoring mass spectrometry
- Saito M, Ushijima T, Sasamoto K\*, Ohkura Y, Ueno K/ \*Dojindo Labs, Kumamoto 86122, Japan  
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- Van Dalen G, De Galan L/ Unilever Res Labs Vlaardingen, Olivier van Noortlaan 120, 3133 AT Vlaardingen, The Netherlands  
*Spectrochim Acta Pt B-Atom Spectr* 1994 49 (12-14) 1689  
Direct determination of particulate elements in edible oils and fats using ultrasonic slurry sampler with graphite furnace atomic absorption spectrometry
- Vicente L, Deighton N, Glidewell SM, Empis JA, Goodman BA/ \*Scottish Crop Res Inst, Dundee DD2 5DA, Scotland  
*Z Lebensmittel-Umsatz Forsch* 1995 200 (1) 43  
*In situ* measurement of free radical formation during the thermal decomposition of grape seed oil using 'spin trapping' and electron paramagnetic resonance spectroscopy
- Wardas W, Pyka A/ L. Warynski Silesian Med Acad, Fac Pharm, PL-41200 Sosnowiec, Poland  
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Visualizing agents for cholesterol in TLC

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- Abian J, Swin S, Abadía J, Gelpi E/ CSIC, CID, Dept Med Bioanal, Barcelona, Spain  
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Thermospray and electrospray mass spectrometry of flavoenzymes: Analysis of riboflavin sulphates from sugar beet
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Tocopherol stability in bell pepper microsomal membranes during short-term storage
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*Anal Biochem* 1995 225 (1) 165  
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- Shimada K, Mitamura K, Mukoyama M, Okumura T, Sugaya K/ Kanazawa Univ, Fac Pharmaceut Sci, 13-1 Takara machi, Kanazawa, Ishikawa 920, Japan  
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Separation and characterization of 25-hydroxyvitamin D<sub>3</sub>-sulfate in human plasma by high-performance liquid chromatography

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- Arruda MAZ, Gallego M, Valcaerol M/ \*Natl Univ Córdoba, Fac Sci, Dept Anal Chem, E-14004 Córdoba, Spain  
*J Anal Atom Spectrom* 1995 10 (1) 55  
Automatic preparation of milk dessert slurries for the determination of trace amounts of aluminium by electrothermal atomic absorption spectrometry
- Bassari AJ/ Cmcroe Nucl Res & Training Ctr, POB 1, Istanbul Airport, Turkey  
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A study on the trace element concentrations of *Thunus thynnus*, *T. obesus* and *Katsuwonus pelamis* by means of ICP-AES
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- Lamble K, Hill SJ/ \*Univ Plymouth, Dept Environ Sci, Drake Circus, Plymouth PL4 8AA, England  
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Determination of trace metals in tea using both microwave digestion at atmospheric pressure and inductively coupled plasma atomic emission spectrometry
- Liu RM, Liu DJ, Sun AL, Liu GH/ Liaocheng Teachers Coll, Dept Chem, Liaocheng, Peoples Rep China  
*Analyst* 1995 120 (2) 369  
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Critical study of fluorimetric determination of selenium in urine
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- Wisoto-Morbach S, Tschikov V, Muller-Ruchboitz W/ Christian Albrechts Univ Kiel, Sch Med, Inst Immunol, Bunsenstr 4, D-24105 Kiel, Germany  
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## 8 DRUG, BIOCIDES & PROCESSING RESIDUES

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Blanchflower WJ, Hewitt SA, Kennedy DG// Dept Agr, Div Vet Sci, Belfast BT4 3SD, Northern Ireland  
*Analyst* 1994 119 (12) 2595

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Boese JL// US FDA, Div Microanalyt Evaluat, Washington, DC 20204, USA  
*JAOAC Int* 1995 78 (1) 180

Filth and extraneous materials in foods and drugs (Committee on microbiology and extraneous materials)

Cannavan A, Blanchflower WJ, Kennedy DG\*\* \*Dept Agr Nthm Ireland, Div Vet Sci, Stonely Rd, Belfast BT4 3SD, Northern Ireland  
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Determination of levamisole in animal tissues using liquid chromatography-thermospray mass spectrometry

Empis JMA, Silva HA, Nunes JJ, Andrade EM// Inst Super Tecn, Avda Rocio Pais, P-1096 Lisbon, Portugal  
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MacNeil JD// Agr & Agri-Food Canada, Hlth Anim Lab, 116 Vet Rd, Saskatoon, Saskatchewan, Canada S7N 5E3  
*JAOAC Int* 1995 78 (1) 127

Drug residues in animal tissues (Committee on drugs and related topics)

McMahon BM// US FDA, Div Pesticides & Ind Chem, Washington, DC 20204, USA  
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Organophalogen residues and fumigants (Committee of pesticide residues and related topics)

Moats WA, Harik-Khan R// USDA ARS, Beltsville Agr Res Ctr, Beltsville, Md 20705, USA  
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Liquid chromatographic determination of  $\beta$ -lactam antibiotics in milk: A multi-residue approach

Newsome WH// Hlth & Well Canada, Food Directorate, Bur Chem Safety, Div Food Res, Ross Ave, Ottawa, Ontario, Canada K1A 0L2  
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Reeves VB// US FDA, Ctr Vet Med, Ctr Agr Res E, Beltsville, Md 20705, USA  
*JAOAC Int* 1995 78 (1) 55

Liquid chromatographic procedure for the determination of novobiocin residues in bovine milk: Interlaboratory study

Schreiber GA, Helle N, Bogl KW// BGVV Fed Inst Hlth Protect Consumers & Vet Med, FGR 21-FG 212, Postfach 330013, D-14191 Berlin, Germany  
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An interlaboratory trial on the identification of irradiated spices, herbs, and spice-herb mixtures by thermoluminescence analysis

Sherma J, McGinnis SC// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA  
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Takahashi Y, Sekiya T, Nishikawa M, Endoh YS// Minist Agr Forestry & Fisheries, Natl Vet Assay Lab, I-15-1 Tokura, Kokubunji, Tokyo 185, Japan  
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Simultaneous high-performance liquid chromatographic determination of ampicillin, cephapach, sulfaquinoxaline and N-acetyl-sulfaquinoxaline in chicken tissues

Ting KC, Lee SC// State Calif Dept Food & Agr, Pesticide Residue Lab, 169 East Liberty Ave, Anaheim, Ca 92801, USA  
*J Chromatogr A* 1995 690 (1) 119

Gas chromatographic determination of triclopyr in fruits and vegetables

Betz JM// US FDA, Div Nat Prod, 200 C St SW, Washington, DC 20204, USA  
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Plant toxins (Committee on natural toxins)

Kos P, Gorzo G, Suranyi G, Borbely G\*\* \*Lajos Kosztov Univ, Dept Bot, POB 14, H-4010 Debrecen, Hungary  
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Simple and efficient method for isolation and measurement of cyanobacterial hepatotoxins by plant tests (*Sinapis alba* L.)

Quilliam MA// Natl Res Council Canada, Atlantic Reg Lab, Inst Marine Biosci, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1  
*JAOAC Int* 1995 78 (1) 144

Seafood toxins (Committee on natural toxins)

Smith DS, Kitts DD\*\* \*Univ British Columbia, Dept Food Sci, 6650 NW Marine Dr, Vancouver, Brit Columbia, Canada V6T 1Z4  
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A competitive enzyme-linked immunosay for domoic acid determination in human body fluids

Truckess MW// US FDA, Div Nat Prod, 200 C St SW, Washington, DC 20204, USA  
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Mycotoxins (Committee on natural toxins)

10 ADDITIVES

Fagan SVB, Gombatz C, Abdel-Kader H, Menon G// SmithKline Beecham Anim Hlth, Dept Formul & Chem Dev, Analyt Chem, 1600 Paoli Pike, West Chester, Pa 19380, USA  
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Fazio T// US FDA, Ctr Food Safety & Appl Nutr, 200 C St SW, Washington, DC 20204, USA  
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Food additives (Committee on additives, beverages, and food process related analytes)

Friedrich A, Layer H, Harumann S// Staatliches Tierarztliches Untersuchungslamt Stuttgart, Azenbergstr 16, D-70174 Stuttgart, Germany  
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Haas U, Vinha CA\*\* \*Univ Hohenheim, Inst Phys, Garbenstr 30, D-70599 Stuttgart, Germany  
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Lau OW, Mok CS// Chines Univ Hong Kong, Dept Chem, Sha Tin, Hong Kong  
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Lee HS// Florida Dept Citrus, Ctr Citrus Res & Educ, 700 Expt Sn Rd, Lake Alfred, Fl 33850, USA  
*JAOAC Int* 1995 78 (1) 80

Liquid chromatographic determination of benzoic acid in orange juice: Interlaboratory study

Ragheb HS// Purdue Univ, Dept Biochem, Off Indiana State Chem, West Lafayette, In 47907, USA  
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Antibiotics in feeds (Committee on feeds, fertilizers, and agricultural related topics)

Smallidge RL// Purdue Univ, Dept Biochem, Off Indiana State Chemist, West Lafayette, In 47907, USA  
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Drugs in feeds (Committee on feeds, fertilizers, and agricultural related topics)

Yao T, Satomura M, Nakahara T// Univ Osaka Prefecture, Coll Engr, Dept Appl Chem, I-1 Gakuen cho, Sakai, Osaka 593, Japan  
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Simultaneous determination of sulfite and phosphate in wine by means of immobilized enzyme reactions and amperometric detection in a flow-injection system

11 FLAVOURS & AROMAS

Cao Z, Lin HG, Wang BF, Chen ZZ, Ma FL, Wang KM, Yu RQ\*\* \*Hunan Univ, Dept Chem & Chem Engr, Changsha 410082, Peoples Rep China

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Food microbiology: Non-dairy (Committee on microbiology and extraneous materials)

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Discrimination of vapours of alcohols and beverage samples using piezoelectric crystal sensor array
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Simultaneous micro steam distillation/solvent extraction for the isolation of semivolatile flavor compounds from cinnamon and their separation by series coupled-column gas chromatography
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Modeling of the sensory evaluation of sake by Dempster-Shafer's measure and genetic algorithm
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Otolith elemental fingerprinting for stock identification of Atlantic cod (*Gadus morhua*) using laser ablation ICP-MS
- Jackson AE, De Freitas ASW, Hooper L, Mallet A, Walter JA\*\*// Natl Res Council Canada, Inst Marine Biosci, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1  
*Can J Fisheries Aquat Sci* 1994 51 (9) 2105  
Phosphorus metabolism monitored by <sup>31</sup>P NMR in juvenile sea scallop (*Placopecten magellanicus*) overwintering in pearl nets at a Nova Scotian aquaculture site
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*JAOAC Int* 1995 78 (1) 162  
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