

# Bibliography of analytical food, nutritional and clinical methods

(Four weeks journals - Search completed at 5th July 1994)

## 1 BOOKS, REVIEWS & SYMPOSIA

- J Inst Brew* 1994 **100** (3) 135  
European brewery convention methods of analysis  
Chappuis P, Pineau A, Guillard O, Arnaud J, Zawislak R// Hop Lariboisiere, Cent Biochim Lab, 2 rue Ambroise Pare, F-75475 Paris 10, France  
*Ann Biol Clin Paris* 1994 **52** (2) 103  
Practical advice concerning collection of biological fluids for determination of trace-elements (Review) (French, English Abstract)  
Iqbal SJ// Leicester Royal Infirm, Dept Clin Chem, Leicester LE1 5WW, England  
*Ann Clin Biochem* 1994 **31** (2) 109  
Vitamin D metabolism and the clinical aspects of measuring metabolites (Review)  
Usleber E, Martlbauer E, Schneider E, Dietrich R// Univ Munich, Lehrstuhl Hyg & Technol Milch, Fak Tierarztliche, Schellingstr 10, D-80799 Munich, FRG  
*Arch Lebensm-Hyg* 1994 **45** (2) 32  
Enzyme immunoassays for the detection of antimicrobials in food of animal origin: A review (German, English Abstract)

## 2 GENERAL

- Cohen BL, Schilken CA// Unit Pittsburgh, Pittsburgh, Pa 15260, USA  
*J Chem Educ* 1994 **71** (4) 342  
Calorie content of foods: A laboratory experiment introducing measuring by calorimeter  
McCarthy MJ, Lasseux D, Maneval JE// Univ Calif Davis, Dept Food Sci & Technol, Davis, Ca 95616, USA  
*J Food Eng* 1994 **22** (1-4) 211  
NMR imaging in the study of diffusion of water in foods

## 3 AMINO ACIDS, PROTEINS & ENZYMES

- Coimbra JDR, Thommes J, Kula MR// \*Heinrich Heine Univ Dusseldorf, Inst Enzyme Technol, POB 2050, D-52404 Julich, FRG  
*J Chromatogr A* 1994 **668** (1) 85  
Continuous separation of whey proteins with aqueous two-phase systems in a Graesser contactor  
Csapo J, Csapo-Kiss Z, Folestad S, Tivesten A// Agr Univ Kaposvar, Pannon, Fac Anim Sci, POB 16, Denesmajor 2, H-7401 Kaposvar, Hungary  
*Anal Chim Acta* 1994 **289** (1) 105  
Mercaptoethanesulphonic acid as a protecting and hydrolysing agent for the determination of the amino acid composition of proteins using an elevated temperature for protein hydrolysis  
El-Khoury AE, Fukagawa NK, Sanchez M, Tsay RH, Gleason RE, Chapman TE, Young VR// \*MIT, Human Nutr Lab, Rm E18-613, 50 Ames St, Cambridge, Ma 02139, USA  
*Amer J Clin Nutr* 1994 **59** (5) 1000  
Validation of the tracer-balance concept with reference to leucine: 24 hour intravenous tracer studies with L-[1-<sup>13</sup>C]leucine and [<sup>15</sup>N-<sup>15</sup>N]urea  
El-Khoury AE, Fukagawa NK, Sanchez M, Tsay RH, Gleason RE, Chapman TE, Young VR// \*MIT, Human Nutr Lab, 50 Ames St, Rm E18-613, Cambridge, Ma 02139, USA  
*Amer J Clin Nutr* 1994 **59** (5) 1012  
The 24 hour pattern and rate of leucine oxidation, with particular reference to tracer estimates of leucine requirements in healthy adults  
Girardet JM, Saulnier F, Driou A, Linden G, Coddeville B, Spik G// Univ Nancy 1, NRA, Biochim Appl Biol Lab, BP 239, F-54506 Vandoeuvre Nancy, France  
*J Dairy Sci* 1994 **77** (5) 1205

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical food chemistry. 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.

- High performance electrophoresis chromatography of bovine milk component-3 glycoproteins  
Kamishikiyo-Yamashita H, Oritani Y, Takamura H, Matoba T// Nara Womens Univ, Grad Sch Human Culture, Div Human Life & Environm Sci, Nara 630, Japan  
*J Food Sci* 1994 **59** (2) 313  
Protein content in milk by near-infrared spectroscopy  
Oomah BD, Voldeng H, Fregeau-Reid JA// Agr Canada, Res Branch, Food Res Lab, Morden Res Stn, POB 3001, Morden, Manitoba, Canada R0G 1J0  
*Plant Food Hum Nutr* 1994 **45** (3) 251  
Characterization of soybean proteins by HPLC  
Tsuda T, Yamada M, Nakagawa S, Tsukasaki F, Nakazawa Y// Kyoritsu Womens Univ, Inst Human & Cultural Res, Food Sci & Technol Lab, 2-2-1 Hitotsubashi, Tokyo 101, Japan  
*Milchwissenschaft* 1994 **49** (4) 200  
Capillary isotachopheric measurement of lower molecular weight peptides and biochemical changes during ripening of Camembert cheese

## 4 CARBOHYDRATES

- Araujo BE// Jefe Lab, Ingenio St Ana, Guatemala  
*Int Sugar J* 1994 **96** (1145) 185  
New method for minimization of sugar loss in final molasses using high-performance liquid chromatography  
Ferrer JAU, Mambuca RR, Lopez JR// Address not available.  
*Int Sugar J* 1994 **96** (1145) 189  
Colorimetric determination of fructose using acid reaction  
Irita M// Daiichi Togyo Co Ltd, Miyazaki, Japan  
*Int Sugar J* 1994 **96** (1145) 170  
Process control by impurity analysis in sugar refining

## 5 LIPIDS

- Amarowicz R, Shahidi F// \*Mem Univ Newfoundland, Dept Biochem, St Johns, New Foundland, Canada A1B 3X9  
*J Amer Oil Chem Soc* 1994 **71** (5) 551  
Chromatographic separation of glucopyranosyl sinapate from canola meal  
Balinov B, Soderman O\*, Warnheim T// \*Div Phys Chem 1, Box 124, S-221 00 Lund, Sweden  
*J Amer Oil Chem Soc* 1994 **71** (5) 513  
Determination of water droplet size in margarines and low-calorie spreads by nuclear magnetic resonance self-diffusion  
Casiraghi E, Lucisano M, Pompei C, Dellea C// Dipt Sci & Tecnol Alimentari & Microbiol, via Celoria 2, I-20133 Milan, Italy  
*Milchwissenschaft* 1994 **49** (4) 194  
Cholesterol determination in butter by high-performance chromatography  
Gregory LC, Duh SH, Christenson RH// Univ Maryland, Sch Med, Dept Med & Res Technol, 100 Penn St, Baltimore, Md 21201, USA  
*Clin Chem* 1994 **40** (4) 579  
Eight compact analysis systems evaluated for measuring total cholesterol  
Heron S, Tchaplal A// Inst Univ Technol Orsay, Etud Tech & Instruments Anal Molec Lab, Plateau Moulon, BP 127, F-91403 Orsay, France  
*Analisis* 1994 **22** (3) 114  
Choice of stationary and mobile phases for separation of mixed triglycerides by liquid phase chromatography (French, English Abstract)  
Hong JH, Yamaoka-Koseki S, Yasumoto K// Kyoto Univ, Food Sci Res Inst, Uji, Kyoto 611, Japan  
*J Jpn Soc Food Sci Technol* 1994 **41** (4) 277  
Analysis of peroxide values in edible oils by near infrared spectroscopy (Japanese, English Abstract)

- Kim DH, Lee KJ\*, Heo GS// \*Ewha Womans Univ, Coll Pharm, Sodaemun ku, Seoul 120750, South Korea  
*J Chromatogr B-Bio Med Appl* 1994 **655** (1) 1  
Analysis of cholesterol and cholesteryl esters in human serum using capillary supercritical fluid chromatography
- Le Botlan DJ, Helie I// Fac Sci & Tech Nantes, Lab RMN & Reactiv Chim, CNRS, URA 472, F-44072 Nantes 03, France  
*Analisis* 1994 **22** (3) 108  
A novel approach to the analysis of fats by low resolution NMR spectroscopy: Application to milk and vegetable fats
- Medina I, Sacchi R, Aubourg S// CSIC, Inst Invest Marinas, Eduardo Cabello 6, E-36208 Vigo, Spain  
*J Amer Oil Chem Soc* 1994 **71** (5) 479  
<sup>13</sup>C nuclear magnetic resonance monitoring of free fatty acid release after fish thermal processing
- Metges CC, Kempe K, Wolfram G// Tech Univ Munich, Inst Nutr Sci, Dept Chem, D-85350 Freising-Weihenstephan, FRG  
*Biol Mass Spectrom* 1994 **23** (5) 295  
Enrichment of selected serum fatty acids after a small oral dosage of (1-<sup>13</sup>C)- and (8-<sup>13</sup>C) triolein in human volunteers analysed by gas chromatography/com-bustion isotope ratio mass spectrometry
- Regueiro JAG, Diaz I, David F, Sandra P// IRTA, Ctr Technol Carn, Granja Camps & Armet, E-17121 Monells, Spain  
*J High Res Chromatogr* 1994 **17** (3) 180  
Possibilities of PTV injection for the analysis of triglycerides
- Regueiro JAG, Gibert J, Diaz I// Ctr Technol Carn, Unitat Tecnol Analit, IRTA, Granja Camps & Armet, E-17121 Monells, Spain  
*J Chromatogr A* 1994 **667** (1-2) 225  
Determination of neutral lipids from subcutaneous fat of cured ham by capillary gas chromatography and liquid chromatography
- Schulte E// Univ Munster, Inst Lebensmittelchem, Piusallee 7, D-48147 Munster, FRG  
*Fett Wiss Technol* 1994 **96** (4) 124  
Determination of edible fat refining by HPLC of  $\Delta$ -3,5-steradienes
- Viinane E, Hopia A\*// \*Univ Helsinki, Dept Appl Chem & Microbiol, POB 27, SF-00014 Helsinki, Finland  
*J Amer Oil Chem Soc* 1994 **71** (5) 537  
Reversed phase high-performance liquid chromatographic analysis of triacylglycerol autoxidation products with ultraviolet and evaporative light-scattering detectors
- ## 6 VITAMINS & CO-FACTORS
- Blanco D, Sanchez LA, Gutierrez MD// Univ Oviedo, Dept Quim Fis & Analit, E-33006 Oviedo, Spain  
*J Liq Chromatogr* 1994 **17** (7) 1525  
Determination of water soluble vitamins by liquid chromatography with ordinary and narrow-bore columns
- Sander LC, Sharpless KE, Craft NE, Wise SA// Natl Inst Stand & Technol, Div Organ Analyt Res, Chem Sci & Technol Lab, Gaithersburg, Md 20899, USA  
*Anal Chem* 1994 **66** (10) 1667  
Development of engineered stationary phases for the separation of carotenoid isomers
- Sowell AL, Huff DL, Yeager PR, Caudill SP, Gunter EW// Ctr Dis Control & Prevent, Natl Ctr Environm Hlth, Div Environm Hlth Lab Sci, Nutr Biochem Branch, Atlanta, Ga 30341, USA  
*Clin Chem* 1994 **40** (3) 411  
Retinol  $\alpha$ -tocopherol, lutein zeaxanthin,  $\beta$ -cryptoxanthin lycopene,  $\alpha$ -carotene, *trans*- $\beta$ -carotene, and 4 retinyl esters in serum determined simultaneously by reversed-phase HPLC with multiwavelength detection
- ## 7 TRACE ELEMENTS & MINERALS
- Almeida AA, Cardoso MI, Lima JLFC\*// \*Univ Oporto, Fac Farm, Dept Quim Fis, Rua Anibal Cunha 164, P-4000 Oporto, Portugal  
*Atom Spectrosc* 1994 **15** (2) 73  
Determination of copper in port wine and Madeira wine by electrothermal atomization AAS
- Bradley C, Leung FY\*// \*Univ Western Ontario, Univ Hosp, Dept Clin Biochem, Trace Met Lab, POB 5339, London, Ontario, Canada N6A 5A5  
*Clin Chem* 1994 **40** (3) 431  
Aluminum determined in plasma and urine by atomic absorption spectroscopy with a transversely heated graphite atomizer furnace
- Bruno SNF, Campos RC, Curtius AJ\*// \*UFSC, Dept Quim, Campus Univ Trindade, BR-88040 Florianopolis, SC, Brazil  
*J Anal Atom Spectrom* 1994 **9** (3) 341  
Determination of lead and arsenic in wines by electrothermal atomic absorption spectrometry
- Capitan-Vallvey LF, Valencia MC, Miron G// Univ Granada, Dept Analyt Chem, E-18071 Granada, Spain  
*Anal Chim Acta* 1994 **289** (3) 365  
Flow-injection method for the determination of tin in fruit juices using solid-phase spectrophotometry
- Carrión N, Itriago A, Murillo M, Eljuri E, Fernandez A// Univ Cent Venezuela, Fac Ciencias, Ctr Quim Analit, Escuela Quim, POB 47102, Caracas 1041A, Venezuela  
*J Anal Atom Spectrom* 1994 **9** (3) 205  
Determination of calcium, potassium, magnesium, iron, copper and zinc in maternal milk by inductively coupled plasma-atomic emission spectrometry
- Chiba M, Shinohara A, Inaba Y\*// \*Juntendo Univ, Sch Med, Dept Hyg, Tokyo 113, Japan  
*Microchem J* 1994 **49** (2-3) 275  
Improved method for using atomic absorption spectrometry with a graphite furnace to determine tin in blood
- Coni E, Caroli S, Ianni D, Bocca A// Ist Super Sanita, Viale Regina Elena 299, I-00161 Rome, Italy  
*Food Chem* 1994 **50** (2) 203  
A methodological approach to the assessment of trace elements in milk and dairy products
- Fujita T, Hamasaki H, Furukata C, Nonobe M// Oriental Yeast Co Ltd, Ctr Biochem Res & Dev, Minami Suita 4-4-1, Suita, Osaka 564, Japan  
*Clin Chem* 1994 **40** (5) 763  
New enzymatic assay of iron in serum
- Gregoire DC, Lee J// Geol Survey Canada, 601 Booth St, Ottawa, Ontario, Canada K1A 0E8  
*J Anal Atom Spectrom* 1994 **9** (3) 393  
Determination of cadmium and zinc isotope ratios in sheep's blood and organ tissue by electrothermal vaporization inductively coupled plasma-mass spectrometry
- Jensen PD, Jensen FT, Ellegaard J// Aarhus Univ Hosp, Amtssygehuset, Dept Med & Haematol, Tage Hansens Gade 2, DK-8000 Aarhus, Denmark  
*Brit J Haematol* 1994 **87** (1) 171  
Non-invasive assessment of tissue iron overload in the liver by magnetic resonance imaging
- Kopanskaya LS, Smelov VA// Moldavian Acad Sci, Inst Chem, Kishinev, Moldova  
*J Anal Chem-Engl Tr* 1993 **48** (9 Pt 2) 1101  
Determination of lead in grape juice by polarography in aqueous - organic media
- Lan WG, Wong MK\*, Sin YM// \*Natl Univ Singapore, Dept Chem, 10 Kent Ridge Crescent, Singapore 0511, Singapore  
*Talanta* 1994 **41** (2) 195  
Comparison of 4 microwave digestion methods for the determination of selenium in fish tissue by using hydride generation atomic absorption spectrometry
- Maitani T, Xing DR, Ikeda CM, Goda Y, Takeda M, Yoshihira K// Natl Inst Hlth Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan  
*J Food Hyg Soc Jpn* 1994 **35** (2) 201  
Application of ICP-atomic emission spectrometry with ultrasonic nebulizer to screening for carmine: Determination of aluminum in canned cherries
- Manickum CK, Verbeek AA\*// \*Univ Natal, Dept Chem, POB 375, Pietermaritzburg 3200, Rep Sth Africa  
*J Anal Atom Spectrom* 1994 **9** (3) 227  
Determination of aluminium, barium, magnesium and manganese in tea leaf by slurry nebulization inductively coupled plasma-atomic emission spectrometry
- Muto H, Abe T, Takizawa Y, Kawabata K, Yamaguchi K, Saitoh K// Akita Univ, Sch Med, Environm Res Ctr, Hondo 1-1-1, Akita 010, Japan  
*Sci Total Envir* 1994 **144** 231  
Simultaneous multielemental analysis of daily food samples by inductively coupled plasma-mass spectrometry
- Patriarca M, Fell GS// Univ Glasgow, Royal Infirmary, Dept Pathol Biochem, Glasgow G4 0SF, Scotland  
*J Anal Atom Spectrom* 1994 **9** (3) 457  
Determination of nickel in serum of haemodialysed patients by means of electrothermal atomic absorption spectrometry with deuterium background correction
- Ridao M, Cseh SB, Drake M// Natl Univ Mar Plata, Fac Agr Sci, Balcarce Integrated Unit, Ruta 226 km 74, CC 276, Balcarce 7620, Argentina  
*Atom Spectrosc* 1994 **15** (2) 87  
Determination of Mo in whole blood using GFAAS
- Rimbach G, Pallauf J// Justus Liebig Univ Giessen, Inst Tierernahrung, Fachbereich Ernahrungs & Haushaltswissen, D-35390 Giessen, FRG  
*Ernahr-Umsch* 1994 **41** (4) 144  
Methods to determine zinc status (German)
- Stroh A, Bruckner P, Vollkopf U// Perkin Elmer Bodenseewerk GmbH, Postfach 10 17 61, D-88647 Überlingen, FRG  
*Atom Spectrosc* 1994 **15** (2) 100  
Multielement analysis of wine samples using ICP-MS
- Tietz NW, Rinker AD, Morrison SR// Univ Kentucky, Med Ctr, Dept Lab Med & Pathol, Lexington, Ky 40536, USA  
*Clin Chem* 1994 **40** (4) 546

When is a serum iron really a serum iron? The status of serum iron measurements

Tsoumbaris P, Tsoukali-Papadopoulou H// Aristotelian Univ Thessaloniki, Med Facil, Forens Med & Toxicol Lab, Hyg Lab, GR-54006 Thessaloniki, Greece

*Bull Environ Contam Toxicol* 1994 **53** (1) 61

Heavy metals in common foodstuff: Quantitative analysis

Ursinyova M, Palusova O, Hladikova V// Ustav Prevent & Klin Med, Limbova 14, CS-83301 Bratislava, Slovak Rep

*Chem Listy* 1994 **88** (4) 252

Determination of cadmium, lead and mercury in the total diet using atomic absorption spectrometry (Czech, English Abstract)

## 8 DRUG, BIOCIDES & PROCESSING RESIDUES

Burse VW, Groce DF, Caudill SP, Korver MP, Phillips DL, McClure PC, Lapeza CR, Head SL, Miller DT, Buckley DJ *et al*// Ctr Dis Control, Natl Ctr Environm Hlth, Div Environm Hlth Lab Sci, Atlanta, Ga 30333, USA

*Sci Total Envir* 1994 **144** 153

Determination of polychlorinated biphenyl levels in the serum of residents and in the homogenates of seafood from the New Bedford, Massachusetts, area: A comparison of exposure sources through pattern recognition techniques

Degroodt JM, De Bukanski BW, Srebrić S// Minist Publ Hlth & Environm, 14 J Wytsman St, B-1050 Brussels, Belgium

*J Liq Chromatogr* 1994 **17** (8) 1785

Oxolinic acid and flumequine in fish tissues: Validation of an HPLC method; Analysis of medicated fish and commercial fish samples

De Vries JX, Schmitz-Kummer E// Univ Heidelberg, Med Klin, Klin Pharmakol Abt, Bergheimer Str 58, D-69115 Heidelberg, FRG

*J Chromatogr B-Bio Med Appl* 1994 **655** (1) 63

Determination of the coumarin anticoagulant phenprocoumon and metabolites in human plasma, urine and breast milk by high-performance liquid chromatography after solid-state extraction

Giles JS, Hariharan H, Heaney SB// Univ Prince Edward Isl, Atlantic Vet Coll, Dept Pathol & Microbiol, Charlottetown, Prince Edward Isl, Canada C1A 4P3

*Microbiologica* 1994 **17** (2) 155

A microbiological assay for determining sarafloxacin and oxolinic acid concentrations in Atlantic salmon plasma

Horie M, Saito K, Nose N, Oka H, Nakazawa H// Saitama Prefectural Inst Publ Hlth, 639-1 Urawa, Saitama 338, Japan

*J Chromatogr B-Bio Med Appl* 1994 **655** (1) 47

Determination of mirosamicin in animal tissues by high-performance liquid chromatography

Iijima M, Hoshino Y, Tokumaru Y, Nose N// Saitama Prefectural Inst Publ Hlth, 639-1 Kamiokubo, Urawa 338, Japan

*J Food Hyg Soc Jpn* 1994 **35** (2) 180

Purge and trap analysis of volatile halogenated organic compounds in foods using air sampling tube for solvent desorption (Japanese, English Abstract)

Ishii R, Horie M, Hoshino Y, Tokumaru Y, Nose N// Saitama Prefectural Inst Publ Hlth, 639-1 Kamiokubo, Urawa, Saitama 338, Japan

*J Food Hyg Soc Jpn* 1994 **35** (2) 173

Simultaneous determination of residual synthetic antibacterials in fish and meat products by high-performance liquid chromatography with photodiode array detector (Japanese, English Abstract)

Kirchmann E, Earley RL, Welch LE\*// \*Knox Coll, Dept Chem, Galesburg, IL 61401, USA

*J Liq Chromatogr* 1994 **17** (8) 1755

The electrochemical detection of penicillins in milk

Kramer PM, Marco MP, Hammock BD\*// \*Univ Calif Davis, Dept Entomol, Davis, Ca 95616, USA

*J Agr Food Chem* 1994 **42** (4) 934

Development of a selective enzyme-linked immunosorbent assay for 1-naphthol - The major metabolite of carbaryl (1-naphthyl N-methylcarbamate)

Lehotay SJ, Miller RW// USDA ARS, Beltsville Agr Res Ctr, 10300 Baltimore Ave, Beltsville, Md 20705, USA

*J Environ Sci Health B-Pestic* 1994 **29** (3) 395

Evaluation of commercial immunoassays for the detection of alachlor in milk, eggs and liver

Nishikawa Y, Fujiwara K, Takamura K// Konica Corp, Ctr Analyt, 1 Sakura machi, Hino, Tokyo 191, Japan

*Bunseki Kagaku* 1994 **43** (5) 425

Trace analysis of residual additives on the surface of cultivated fruits by surface-enhanced infrared spectroscopy (Japanese, English Abstract)

Pang GF, Fan CL, Chao YZ, Zhao TS// Qin Huangdao Import & Export Com-mod Inspect Bur, Qin Huangdao 066002, Peoples Rep China

*J Chromatogr A* 1994 **667** (1-2) 348

Rapid method for the determination of multiple pyrethroid residues in fruits and vegetables by capillary column gas chromatography

Schneider E, Martlbauer E, Dietrich R, Usleber E, Terplan G// Ludwig Maxi-

milians Univ Munchen, Lehrstuhl Hyg & Technol Milch, Schellingstr 10, D-80799 Munich, FRG

*Arch Lebensm-Hyg* 1994 **45** (2) 43

Two rapid enzyme immunochemical tests for the detection of chloramphenicol in raw milk (German, English Abstract)

Tsai CE, Kondo F// Miyazaki Univ, Fac Agr, Dept Vet Publ Hlth, Miyazaki 88921, Japan

*Res Vet Sci* 1994 **56** (3) 277

Simple continuous and simultaneous determination of tetracycline residues

Unglaub W, Weber U// Staatliches Tierärztliches Untersuchungsamt Aulendorf, Lowenbreitestr 18-20, D-88326 Aulendorf, FRG

*Fleischwirtschaft* 1994 **74** (4) 430

Method and results of phenylbutazone-determinations in bovine serum (German, English Abstract)

## 9 TOXINS

Becker H, Schaller G, Martlbauer E// Ludwigs Maximilians Univ, Lehrstuhl Hyg & Technol Milch, Vet Str 13, D-80539 Munich, FRG

*Arch Lebensm-Hyg* 1994 **45** (2) 27

Detection of staphylococcal enterotoxins in foods using commercial enzyme immunoassay kits (German, English Abstract)

Cathey CG, Huang ZG, Sarr AB, Clement BA, Phillips TD\*// \*Texas A&M Univ, Coll Vet Med, Fac Toxicol, College Stn, Tx 77843, USA

*J Dairy Sci* 1994 **77** (5) 1223

Development and evaluation of a minicolumn assay for the detection of aflatoxin M<sub>1</sub> in milk

Cherton JC, Jellal A, Lhommet G, Loutelier C, Dardoize F, Lacoste L, Subileau C// Univ Versailles St Quentin Yvelines, Dept Chim, 45 rue Etats Unis, F-78001 Versailles, France

*Analisis* 1994 **22** (4) 210

Unexpected production of chaetoglobosins from maize incubated by *Phomopsis leptostromiformis*. I. Isolation and optimization of the production in liquid media by LC monitoring

Convert O, Jellal A, Correia I, Dardoize F, Menguy L, Cherton JC// Univ Paris 06, Chim Organ Struct Lab, ERS 073, 4 Pl Jussieu, F-75005 Paris 05, France

*Analisis* 1994 **22** (4) 217

A novel mycotoxin: The chaetoglobosin-N from infested maize by *Phomopsis leptostromiformis*. II. Structure elucidation by <sup>1</sup>H and <sup>13</sup>C NMR

Cruteau SM, Prelusky DB\*, Trenholm HL// \*Agr Canada, Ctr Food & Anim Res, Rm 4045, KW Neatby Bldg, Ottawa, Ontario, Canada K1A 0C6

*J Agr Food Chem* 1994 **42** (4) 928

Analysis of trichothecene mycotoxins by gas chromatography with electron capture detection

Dominguez L, Moreno MA, Blanco JL, Cutuli M, Prieta J, Diaz S, Bayo FJ, Septien I, Suarez G// Univ Complutense, Fac Vet, Dept Patol Anim Sanidad Anim 1, E-28040 Madrid, Spain

*Rev Espan Cien Tecnol Aliment* 1994 **34** (2) 121

Diphasic dialysis: A new methodology for extraction of mycotoxins and other organic low molecular weight contaminants from food (Spanish, English Abstract)

Lin JR, Chu FS\*// \*Univ Wisconsin, Food Res Inst, 1925 Willow Dr, Madison, WI 53706, USA

*J Agr Food Chem* 1994 **42** (4) 1035

Kinetics of distribution of microcystin LR in serum and liver cytosol of mice: An immunochemical analysis

Plhak L, Sporns P// Univ Alberta, Dept Food Sci & Nutr, Edmonton, Alberta, Canada T6G 2P5

*Amer Potato J* 1994 **71** (5) 297

Development and production of monoclonal antibodies for the measurement of solanidine potato glycoalkaloids

## 10 ADDITIVES

Fujimori M, Kajino K, Kawamura Y, Ito Y, Horitsu H// Nakano Vinegar Co Ltd, Nakano Res Inst, 2-6 Nakamura, Handa, Aichi 475, Japan

*Nippon Nogeikagaku Kaishi* 1994 **68** (5) 967

Simultaneous assay of 8 food preservatives in imported fruit vinegars by solid-phase extraction gas-liquid chromatography

Hall CA, Zhu A, Zece MG\*// \*Univ Nebraska, Dept Food Sci & Technol, Lincoln, Ne 68583, USA

*J Agr Food Chem* 1994 **42** (4) 919

Comparison between capillary electrophoresis and high-performance liquid chromatography separation of food grade antioxidants

Harada S, Otani H, Maeda S, Kai Y, Kasai N, Kurihara Y// Osaka Univ, Fac Engr, Dept Appl Chem, Suita, Osaka 565, Japan

*J Mol Biol* 1994 **238** (2) 286

Crystallization and preliminary X-ray diffraction studies of curcumin: A new type of sweet protein having taste-modifying action

Xie XF, Shakhsher Z, Suleiman AA, Guilbault GG, Yang ZM, Sun ZA// Uni-

versal Sensors Inc, 5258 Vet Blvd, Ste D, Metairie, La 70006, USA  
*Talanta* 1994 **41** (2) 317  
 A fiber optic biosensor for sulfite analysis in food

## 11 FLAVOURS & AROMAS

Casabianca H, Graff JB// Serv Cent Anal, CNRS, BP 22, F-69390 Vernaison, France

*J High Res Chromatogr* 1994 **17** (3) 184

Separation of linalyl acetate enantiomers: Application to the authentication of bergamot food products

Castillo J, Benavente-Garcia O, Del Rio JA\*// \*Univ Murcia, Fac Biol, Dept Plant Biol, E-30071 Murcia, Spain

*J Liq Chromatogr* 1994 **17** (7) 1497

Study and optimization of citrus flavanone and flavones elucidation by reverse phase HPLC with several mobile phases: Influence of the structural characteristics

Faber B, Dietrich A, Mosandl A\*// \*Univ Frankfurt, Inst Lebensmittelchem, Marie Curie Str 9, D-60439 Frankfurt, FRG

*J Chromatogr A* 1994 **666** (1-2) 161

Chiral compounds of essential oils. XV. Stereodifferentiation of characteristic compounds of *Mentha* species by multi-dimensional gas chromatography

Fung SY, Brussee J, Van der Hoeven RAM, Niessen WMA, Scheffer JJC, Verpoorte R\*// \*Leiden Univ, Leiden Amsterdam Ctr Drug Res, Div Pharmacognosy, Gorlaeus Labs, POB 9502, 2300 RA Leiden, The Netherlands

*J Nat Prod* 1994 **57** (4) 452

Analysis of proposed aromatic precursors of hop bitter acids

Luning PA, De Rijk T, Wichers HJ, Roozen JP// Agrotechnol Res Inst ATO DLO, POB 17, 6700 AA Wageningen, The Netherlands

*J Agr Food Chem* 1994 **42** (4) 977

Gas chromatography, mass spectrometry, and sniffing port analyses of volatile compounds of fresh bell peppers (*Capsicum annuum*) at different ripening stages

Nogata Y, Ohta H\*, Yoza KI, Berhow M, Hasegawa S// \*Minist Agr Forestry & Fisheries, Chugoku Natl Agr Expt Stn, Fukuyama, Hiroshima 721, Japan

*J Chromatogr A* 1994 **667** (1-2) 59

High-performance liquid chromatographic determination of naturally occurring flavonoids in citrus with a photodiode-array detector

Overton SV, Manura J// Sci Instrument Serv Inc, 1027 Old York Rd, Ringoes, NJ 08551, USA

*Amer Lab* 1994 **26** (6) 45

Flavor and aroma in commercial bee honey: A purge-and-trap thermal desorption technique for the identification and quantification of volatiles and semi-volatiles in honey

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Keeping-quality assessment of pasteurized milk by multivariate analysis of dynamic headspace gas chromatographic data. I. Shelf-life prediction by principal component regression

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*J Inst Brew* 1994 **100** (3) 147

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