



# Bibliography on Analytical Food Chemistry

## 1 BOOKS, REVIEWS & SYMPOSIA

Ambrus A, Buys M, Miyamoto J, Otto S, Smart NA/Homezo 41, H-1221 Budapest, Hungary

PURE APPL CHEM 1991, 63 (5) 747

IUPAC reports on pesticides (28) - Some aspects of the analysis of residues of dicarboximide fungicides in food

Arens M, Gertz C/Krusbreede 34, W-4400 Munster, FRG

FETT WISS TECHNOL 1991, 93 (3) 108

Application of repeatability and reproducibility - Survey by a working party of the DGF, 118th report - German standard methods for investigation of fats, fatty products, tensides and related materials, 89th report - General information III (German, English Abstract)

FETT WISS TECHNOL 1991, 93 (13)

Special Issue - Symposium on adulterations and deceptions in vegetable oils and fats

Mordret F//Address not available

REV FR CORPS GRAS 1991, 38 (1-2) 38

Proceedings of the IUPAC commission on fats (French, English Abstract)

Wessels H//Address not available

FETT WISS TECHNOL 1991, 93 (1) 38

IUPAC commission on oils, fats, and derivatives (German, English Abstract)

Daft JL//US Dept HHS, Food & Drug Adm, Kansas City, Mo 64106, USA

SCI TOTAL ENVIRON 1991, 100 (MAR) 501

Fumigants and related chemicals in foods - Review of residue findings, contamination sources, and analytical methods

Parris N, Barford R (Eds)

Amer Chemical Soc (Washington), 1991, 294 pp, \$59.95 Hardbound, ISBN: 0-8412-1935-4

Interactions of Food Proteins

ACS Symposium Series, Vol. 454

Symp on Interactions of Food Proteins, Honolulu, Hawaii, Dec 17-22, 1989

Weber A, Hillgartner K//Deutsch Landwirtschafts Gessell, Fachbereich Markt & Ernährung, Zimmerweg 16, W-6000 Frankfurt 1, FRG

LEBENSMITTELINDUSTRIE 1991, 38 (3) 70

Tests of the food quality by the Deutsche-Landwirtschafts-Gesellschaft (German, English Abstract)

Hoyland DV, Taylor AJ//Univ Nottingham, Dept Appl Biochem &

Food Sci, Sutton Bonington, Loughborough LE12 5RD, England

FOOD CHEM 1991, 40 (3) 271

A review of the methodology of the 2-thiobarbituric acid test

## 2 GENERAL

Speek AJ, Speek-Saichua S, Schreurs WHP//TNO, CIVO, Inst Toxicol & Nutr, Dept Clin Biochem, POB 360, 3700 AJ Zeist, The Netherlands

FOOD CHEM 1991, 40 (3) 251

Determination of macronutrient and micronutrient levels in Thai foods - An evaluation of the Thai food composition table

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Bruckner H, Langer M//Univ Hohenheim, Inst Food Technol, W-7000 Stuttgart 70, FRG

J CHROMATOGR 1991, 542 (1) 161

Gas chromatographic separation of stereoisomeric esters of alpha-amino acids and alpha-alkyl-alpha-amino acids on chiral stationary phases

Calull M, Fabregas J, Marce RM, Borrull F\*\*/Univ Barcelona, Dept Quim, PCA Imperial Tarraco 1, E-43005 Tarragona, Spain

CHROMATOGRAPHIA 1991, 31 (5-6) 272

Determination of free amino acids by precolumn derivatization with phenylisothiocyanate - Application to wine samples

Gennaro MC, Abrigo C//Univ Turin, Dipartimento Chim Analit, via P Giuria 5, I-10125 Turin, Italy

CHROMATOGRAPHIA 1991, 31 (7-8) 381

Separation of food-related biogenic amines by ion-interaction reversed-phase high performance liquid chromatography - Tyramine, histamine, 2-phenylethylamine, tryptamine and precursor amino acids - Application to red wine

Igartuburu JM, Delrio RM, Massanet GM, Montiel JA, Pando E, Luis FR//Univ Cadiz, Fac Ciencias, Dept Quim Organ, Apdo 40, E-11510 Puerto Real, Spain

J SCI FOOD AGR 1991, 54 (3) 489

Study of agricultural by-products - Extractability and amino acid composition of grapeseed (*Vitis vinifera*) proteins

Goetghebeur M, Ranc X, Mestres JP, Blaise A, Cabanis JC//Fac Pharm Montpellier, Ctr Format Rech Oenol, 15 Ave Charles Flahaut, F-34060 Montpellier, France

SCI ALIMENT 1991M 11 (2) 263

Study about distribution and origin of benzyl alcohol oxidase present in grapes and wines

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 and Symposia; 2 General; 3 Amino Acids, Proteins & Enzymes; 4 Carbohydrates; 5 Lipids; 6 Vitamins & Co-factors; 7 Trace Elements & Minerals; 8 Drug, Biocide & Chemical 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 subject. Where there are no papers to appear under a heading, it will be omitted

- Lietner E, Poiffait A, Adrian J//CNAM, 292 rue St Martin, F-75141 Paris 03, France  
 FOOD SCI TECHNOL-LEBENSMESSWISS 1991, 24 (1) 39  
 Studies on the interaction between casein and vitamin-A
- Yu RC, Hang YD\*//Cornell Univ, Dept Food Sci & Technol, Geneva, NY 14456, USA  
 FOOD CHEM 1991, 40 (3) 301  
 Purification and characterization of a glucoamylase from *Rhizopus oryzae*
- Switzer BR//Univ N Carolina, Sch Publ Hlth, Dept Nutr, Chapel Hill, NC 27599, USA  
 J NUTR BIOCHEM 1991, 2 (4) 229  
 Determination of hydroxyproline in tissue
- Erbersdobler HF, Hupe A//Univ Kiel, Inst Humanernahrung & Lebensmittelkunde, Dusternbrooker Weg 17, W-2300 Kiel 1, FRG  
 Z ERNAHRUNGSWISS 1991, 30 (1) 46  
 Determination of lysine damage and calculation of lysine bio-availability in several processed foods
- Letellier MN, Cuq JL//Nestec York Ltd, Yorkrico, POB 204, York YO1 1XY, England  
 FOOD SCI TECHNOL-LEBENSMESSWISS 1991, 24 (1) 17  
 In vitro evaluation of available lysine in cereal products by near infrared reflectance spectroscopy
- Adachi S, Kimura Y, Murakami K, Matsuno R, Yokogoshi H//Kyoto Univ, Fac Agr, Dept Food Sci & Technol, Sakyo ku, Kyoto 606, Japan  
 AGR BIOL CHEM TOKYO 1991, 55 (4) 925  
 Separation of peptide groups with definite characteristics from enzymatic protein hydrolysate
- Barfod NM, Krog N, Larsen G, Buccheim W//Grindsted Prod AS, DK-8220 Brabrand, Denmark  
 FETT WISS TECHNOL 1991, 93 (1) 24  
 Effects of emulsifiers on protein-fat interaction in ice cream mix during ageing. 1. Quantitative analyses
- Bican P, Spahni A//Fed Dairy Res Inst, Biochem Sect, CH-3097 Liebefeld, Switzerland  
 HRC-J HIGH RES CHROMATOGR 1991, 14 (4) 287  
 Reversed phase high performance liquid chromatography of whey proteins
- Defrutos M, Cifuentes A, Diezmasa JC, Amigo L, Ramos M//CSIC, Inst Quim Organ Gen, Juan Cierva 3, E-28006 Madrid, Spain  
 HRC-J HIGH RES CHROMATOGR 1991, 14 (4) 289  
 Application of HPLC for the detection of proteins in whey mixtures from different animal species
- Dekoning AJ, Mol TH//Univ Cape Town, Fishing Ind Res Inst, Lower Hope St, Rondebosch 7700, South Africa  
 J SCI FOOD AGR 1991, 54 (3) 449  
 Quantitative quality tests for frozen fish - Soluble protein and free fatty acid content as quality criteria for hake (*Merluccius capensis*) stored at -18°C
- Gonzalez-Lara R, Gonzalez LM//Sugelabor SA, Sicilia 36, E-28038 Madrid, Spain  
 J CHROMATOGR 1991, 54 (1-2) 453  
 Analysis of the soluble proteins in grape must by 2-dimensional electrophoresis
- Jiang ST, Moody MW, Chen HC//Nat'l Taiwan Ocean Univ, Dept Marine Food Sci, Chilung 20224, Taiwan  
 J FOOD SCI 1991, 56 (2) 322  
 Purification and characterization of proteases from digestive tract of grass shrimp (*Penaeus monodon*)
- Kohnhorst AL, Smith DM\*, Uebersax MA, Bennink MR//Michigan State Univ, Dept Food Sci & Human Nutr, E Lansing, Mi 48824, USA  
 FOOD CHEM 1991, 41 (1) 33  
 Production and characterization of a protein concentrate from navy beans (*Phaseolus vulgaris*)
- Nagele R, Bellitz HD\*, Wieser H//Tech Univ Munich, Inst Lebensmittelchem, Lichtenbergstr 4, W-8046 Garching, FRG  
 Z LEBENSMITTEL-UNTERSUCH FORS 1991, 192 (5) 415  
 Analysis of food and feed via partial sequences of characteristic protein components (leitpeptide). 1. Isolation and identification of wheat-specific peptides from chymotryptic hydrolyzates of gliadin (German, English Abstract)
- Osman MK, Simon LS//Univ Mansoura, Fac Agr, Mansoura, Egypt  
 NAHRUNG 1991, 35 (3) 303  
 Biochemical studies of some non-conventional sources of protein. 5. Extraction and characterization of protein from fenugreek seed (*Trigonella foenum L*)
- Sheen SJ//Univ Kentucky, Dept Plant Pathol, Lexington, Ky 40546, USA  
 J AGR FOOD CHEM 1991, 39 (4) 681  
 Comparison of chemical and functional properties of soluble leaf proteins from 4 plant species
- Yokotsuka K, Ebihara T, Sato T//Yamanashi Univ, Inst Enol & Viticulture, Kofu, Yamanashi 400, Japan  
 J FERMENT BIOENG 1991, 71 (4) 248  
 Comparison of soluble proteins in juice and wine from Koshu grapes
- Shimada H, Inokuchi N, Okuwaki H, Koyama T, Irie M\*//Hoshi Coll Pharm, Dept Microbiol, Tokyo, Tokyo 142, Japan  
 AGR BIOL CHEM TOKYO 1991, 55 (4) 1167  
 Purification and characterization of a base non-specific and adenylic acid preferring ribonuclease from the fruit bodies of *Lentinus edodes*
- Walker JL, McLellan KM, Robinson DS//Univ Leeds, Procter Dept Food Sci, Leeds LS2 9JT, W Yorkshire, England  
 FOOD CHEM 1991, 41 (1) 1  
 Isolation and purification of superoxide dismutase purified from Brussels sprouts (*Brassica oleracea L* var *Bullata*-sub var *Gemmifera*)

#### 4 CARBOHYDRATES

- Endress HU, Omran H, Gierschner K//Herbstreith & Fox KG, Pektin Fabrik, Neurenburg, FRG  
 FOOD SCI TECHNOL-LEBENSMESSWISS 1991, 24 (1) 76  
 Separation of oligogalacturonic acids by gel permeation chromatography (GPC) and fast-ion chromatography (FIC)
- Hamano T, Mitsuhashi Y, Aoki N, Yamamoto S, Tsuji S, Ito Y, Oji Y//Publ Hlth Res Inst Kobe City, Minatozimanaka machi 4-6, Chuo ku, Kobe 650, Japan  
 J CHROMATOGR 1991, 54 (1-2) 265  
 Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection
- Knudsen KEB, Li BW//USDA ARS, Beltsville Agr Res Ctr, Beltsville, Md 20705, USA  
 J AGR FOOD CHEM 1991, 39 (4) 689

Determination of oligosaccharides in protein-rich feedstuffs by gas-liquid chromatography and high-performance liquid chromatography

Endress HU, Omran H, Gierschner K//Herbstreith & Fox KG, Pektin Fabrik, Neurenburg, FRG

FOOD SCI TECHNOL-LEBENSMESS WISS 1991, 24 (1) 80

Monitoring the course of enzymic degradation of pectic substances by automated fast-ion chromatography (FIC)

Garcia R, Arriola D, Dearriola MC, Deporres E, Rolz C//Cent Amer Res Inst Ind, POB 1552, Guatemala City, Guatemala

FOOD SCI TECHNOL-LEBENSMESS WISS 1991, 24 (2) 125

Characterization of coffee pectin

Garleb KA, Bourquin LD, Fahey GC//Univ Illinois, Div Nutr Sci, Anim Sci Lab 126, Urbana, IL 61801, USA

J FOOD SCI 1991, 56 (2) 423

Galacturonate in pectic substances from fruits and vegetables - Comparison of anion exchange HPLC with pulsed amperometric detection to standard colorimetric procedure

## 5 LIPIDS

Barron LJR, Santamaria G//CSIC, Inst Fermentac Ind, Juan de la Cierva 3, E-28006 Madrid, Spain

REV AGROQUIM TECNOL ALIMENT 1991, 31 (1) 66

Application of high performance liquid chromatography to the analysis of animal and vegetal fats and oils

Fiebig HJ//Bundesanstalt Fettforsch, Inst Chem & Phys, Piusallee 76, W-4400 Munster, FRG

FETT WISS TECHNOL 1991, 93 (1) 13

Collaborative studies for the determination of iodine value (German, English Abstract)

Kowalski B//Agr Univ Warsaw, Dept Food Technol, 26-30 Rakowiecka Str, PL-02528 Warsaw, Poland

THERMOCHIM ACTA 1991, 177 (APR) 9

Evaluation of the stability of some antioxidants for fat-based foods

Tsuzuki W, Shimura S, Akasaka K, Suzuki T//Minist Agr Forestry & Fisheries, Natl Food Res Inst, Tsukuba 305, Japan

ANAL SCI 1991, 7 (2) 253

Determination of lipase activity by high performance liquid chromatography with precolumn fluorescence derivatization using 9-bromo-methylacridine

Afolabi OA, Ologunde MO, Anderson WA, Read JS, Dacosta MD, Epps FA, Ayorinde FO//Obafemi Awolowo Univ, Dept Chem, Ife, Nigeria

J CHEM TECHNOL BIOTECHNOL 1991, 51 (1) 41

The use of lipase (acetone powder) from *Veronia galamensis* in the fatty acid analysis of seed oils

Gaiday NV, Imbs AB\*, Kuklev DV, Latyshev NA//Acad Sci USSR, Inst Marine Biol, Far E Branch, Vladivostok 690032, USSR

J AMER OIL CHEM SOC 1991, 68 (4) 230

Separation of natural polyunsaturated fatty acids by means of iodolactonization

Hawrysh ZJ//Univ Alberta, Dept Foods & Nutr, Edmonton, Alberta, Canada T6G 2M8

J AMER OIL CHEM SOC 1991, 68 (3) U139

Misidentification of fatty acid methyl ester peaks in liquid canola shortening

Jie MSFLK, Choi CYC, Berger A, Berger RG//Univ Hong Kong, Dept Chem, Pokfulam Rd, Hong Kong, Hong Kong

J CHROMATOGR 1991, 543 (1) 257

Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography mass spectrometry of the picolinyl ester derivatives

Spitzer V, Marx F\*, Maia JGS, Pfeilsticker K//Univ Bonn, Lehrstuhl Lebensmittelwissensch & Lebensmittelchem, W-5300 Bonn, FRG

J AMER OIL CHEM SOC 1991, 68 (3) 183

Identification of conjugated fatty acids in the seed oil of *Acioa edulis* (Prance) syn *Couepia edulis* (Chrysobalanaceae)

Steinerasiedu M, Julshamn K, Li O//Inst Nutr, Directorate Fisheries, POB 1900 Nordnes, N-5024 Bergen, Norway

FOOD CHEM 1991, 40 (3) 309

Effect of local processing methods (cooking, frying and smoking) on 3 fish species from Ghana. 1. Proximate composition, fatty acids, minerals, trace elements and vitamins

Thakur BS, Chadha TR//Fruit Res Stn, Solan, 173215, Himachal Pradesh, India

GARTENBAUWISSENSCHAFT 1991, 56 (1) 31

Comparative studies on the fatty acid composition of olive (*Olea europaea* L.) oil extracted from pulp and kernel

Aparicio R, Ferreiro L, Leardi R, Forina M//Inst Grasa, Dept Expert Syst, Av P Garcia Tejero, E-41012 Seville, Spain

CHEMOMETR INTELL LAB SYST 1991, 10 (3) 349

Building decision rules by chemometric analysis - Application to olive oil

Bertoni MH, Sanchez MA, Cattaneo P//Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Quim Organ, Ciudad Univ, R-1428 Buenos Aires, Argentina

ANAL ASOC QUIM ARGENT 1990, 78 (6) 359

Chemical composition of the pulp, seed and seed oil of ripe fruits of *Cyphomandra betacea* (Cav) Sendt (Solanaceae) (Spanish, English Abstract)

Mossoba MM, McDonald RE, Armstrong DJ, Page SW//US FDA, Div Contaminants Chem, Washington, DC 20204, USA

J AGR FOOD CHEM 1991, 39 (4) 695

Hydrogenation of soybean oil - A thin-layer chromatography and gas chromatography matrix isolation Fourier transform infrared study

Thies W//Univ Gottingen, Inst Pflanzenbau & Pflanzenzuchtung, von Siebold Str 8, W-3400 Gottingen, FRG

FETT WISS TECHNOL 1991, 93 (2) 49

Determination of the phytic acid and synapic acid esters in seeds of rapeseed and selection of genotypes with reduced concentrations of these compounds

Lendrath G, Bonekampnasner A, Kraus L//Univ Hamburg, Lehrstuhl Pharmacognosie, Bundesstr 43, W-2000 Hamburg 13, FRG

FETT WISS TECHNOL 1991, 93 (2) 53

Analytical possibilities of qualitative and quantitative determination of phospholipids of different sources (German, English Abstract)

Przybylski R, Eskin NAM//Univ Manitoba, Dept Foods & Nutr, Winnipeg, Manitoba, Canada R3T 2N2

J AMER OIL CHEM SOC 1991, 68 (4) 241

Phospholipid composition of canola oils during the early stages of processing as measured by TLC with flame ionization detector

Christie WW//Hannah Res Inst, Ayr KA6 5HL, Scotland

FETT WISS TECHNOL 1991, 93 (2) 65

Fractionation of the triacylglycerols of evening primrose oil by high-performance liquid chromatography in the silver ion mode

Laakso P, Christie WW\*\*/Univ Turku, Dept Chem & Biochem, Food Chem Lab, SF-20500 Turku 50, Finland

J AMER OIL CHEM SOC 1991, 68 (4) 213

Combination of silver ion and reversed-phase high-performance liquid chromatography in the fractionation of herring oil triacylglycerols

Maniongui C, Gresti J, Bugaut M, Gauthier S, Bezard J\*\*/Fac Sci Mirande, Physiol Anim Nutr Lab, BP 138, F-21004 Dijon, France

J CHROMATOGR 1991, 543 (1) 81

Determination of bovine butterfat triacylglycerols by reversed-phase liquid chromatography and gas chromatography

Luck T, Bauer W//Frauhofer Inst Lebensmitteltechnol & Verpack, Steinerstr 15, W-8000 Munich 70, FRG

FETT WISS TECHNOL 1991, 93 (2) 41

Lipase-catalyzed interesterification of triglycerides in a solvent-free process-I - Analytics and kinetics of the interesterification (German, English Abstract)

## 6 VITAMINS & CO-FACTORS

White DR, Lee HS, Kruger RE//Procter & Gamble Co, Winton Hill Tech Ctr, 6210 Ctr Hill Rd, Cincinnati, Oh 45224, USA

J AGR FOOD CHEM 1991, 39 (4) 714

Reversed-phase HPLC/EC determination of folate in citrus juice by direct injection with column switching

Bellomonte G, Giammarioli S, Terilli R//Ist Super Sanita, Alimenti Lab, Direttore Reparto Dietet, viale Regina Elena 299, I-00161 Rome, Italy

INT J VITAM NUTR RES 1991, 61 (1) 91

Quantitative determination of linoleic acid in infant formulas

Endo M, Yao B, Saotome M, Kamei T//Meiji Milk Prod Co Ltd, Cent Res Inst, Higashimurayama, Tokyo 189, Japan

J JPN SOC FOOD SCI TECHNOL 1991, 38 (4) 275

Determination of pantothenic acid in infant formulas by high performance liquid chromatography (Japanese, English Abstract)

Miyagawa K, Hirai K, Takezoe R//Mukogawa Womens Univ, Dept Food Sci, Nishinomiya, Hyogo 663, Japan

J AMER OIL CHEM SOC 1991, 68 (3) 163

Tocopherol and fluorescence levels in deep-frying oil and their measurement for oil assessment

Kanno C, Kanchara N, Shirafuji K, Tanji R, Imai T//Utsunomiya Univ, Dept Anim Sci, Utsunomiya, Tochigi 321, Japan

J NUTR SCI VITAMINOL 1991, 37 (1) 15

Binding form of vitamin-B<sub>2</sub> in bovine milk - Its concentration, distribution and binding linkage

Takamura K, Hoshino H, Harima N, Sugahara T, Amano H//Seitoku Jr Coll Nutr, 1-4-6 Nishi shinkoira, Katsushika ku, Tokyo 124, Japan

J CHROMATOGR 1991, 543 (1) 241

Identification of vitamin-D<sub>2</sub> by thermospray-interface mass spectrometry

Analytical Methods Committee//Address not available

ANALYST 1991, 116 (4) 421

Determination of vitamin-E in animal feedingstuffs by high-performance liquid chromatography

Boersma ER, Offringa PJ, Muskiet FAJ, Chase WM, Simmons IJ//State Univ Groningen, Dept Obstet & Gynaecol, 59 Oostersingel, 9713 EZ Groningen, The Netherlands

AMER J CLIN NUTR 1991, 53 (5) 1197

Vitamin-E, lipid fractions, and fatty acid composition of colostrum, transitional milk, and mature milk - An international comparative study

## 7 TRACE ELEMENTS & MINERALS

Wang Y, Lu CH, Xiao ZF, Wang GJ, Kuan SS\*, Rigsby EJ\*\*/US FDA, New Orleans Dist, 4298 Elysian Fields Ave, New Orleans, La 70122, USA

J AGR FOOD CHEM 1991, 39 (4) 724

Determination of aluminum in foods by stabilized temperature platform graphite furnace atomic absorption spectrometry

Barbera R, Farre R, Romero I//Univ Valencia, Fac Pharm, Dept Nutr & Food Chem, E-46010 Valencia, Spain

NAHRUNG 1991, 35 (1) 13

Determination of antimony in drinking waters by an inexpensive, reproducible hydride generator for atomic spectroscopy

Suzuki J, Goda Y\*, Kamikura M, Yoshihira K//Nat'l Inst Hyg Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan

J FOOD HYG SOC JPN 1991, 32 (2) 104

Determination of inorganic bromides in Food Red No 104 by ion chromatography (Japanese, English Abstract)

Alegria A, Barbera R, Boluda R, Erracalde F, Farre R, Lagarda MJ//Univ Valencia, Fac Pharm, Dept Food Chem, Blasco Ibanez 13, E-46010 Valencia, Spain

FRESENIUS J ANAL CHEM 1991, 339 (9) 654

Environmental cadmium, lead and nickel contamination - Possible relationship between soil and vegetable content

Assmann-Werthmuller U, Werthmuller K, Molzahn D//Univ Marburg, Fachbereich Phys Chem, Hans Meerwein Str, W-3550 Marburg, FRG

J RADIOANAL CHEM ART 1991, 149 (1) 123

Cesium contamination of heather honey

Elmeqrhari M, Das HA\*\*/Energy Res Ctr, POB 1, 1755 ZG Petten, The Netherlands

J RADIOANAL NUCL CHEM LETT 1991, 153 (5) 365

A note on the accuracy and precision of <sup>137</sup>Cs measurements in food-stuffs

Hansen HS, Hove K//Agr Univ Norway, Dept Anim Sci, N-1432 AS, Norway

HEALTH PHYS 1991, 60 (5) 665

Radiocesium bioavailability - Transfer of Chernobyl and tracer radiocesium to goat milk

Chung SW, Tsai WC\*\*/Food Ind Res & Dev Inst, Div Food Technol, POB 246, Hsinchu 30099, Taiwan

AT SPECTROSC 1991, 12 (2) 59

Determination of iron and tin in canned foods by atomic absorption spectrometry

Rehner G, Walter T//Univ Giessen, Inst Ernahrung Wissensch, Wilhelmstr 20, W-6300 Giessen, FRG

Z ERNAHRUNGSWISS 1991, 30 (1) 50

Effect of Maillard products and lysinoalanine on bioavailability of iron, copper, and zinc (German, English Abstract)

Fischer PWF, Firoux A//Hlth & Welf Canada, Hlth Protect Branch,

Div Nutr Res, Ottawa, Ontario, Canada K1A 0L2  
CLIN BIOCHEM 1991, 24 (2) 215

An evaluation of plasma and erythrocyte magnesium concentration and the activities of alkaline phosphatase and creatine kinase as indicators of magnesium status

Johnson PE, Lykken GI, Korynta ED//USDA ARS, Grand Forks Human Nutr Res Ctr, Univ Stn, Grand Forks, ND 58202, USA  
J NUTR 1991, 121 (5) 711

Absorption and biological half-life in humans of intrinsic and extrinsic <sup>54</sup>Mn tracers from foods of plant origin

Bernal JL, Nozal MJ, Calvo A, Tascon ML, Deban L\*\*//Washington State Univ, Dept Entomol, Pullman, Wa 99164, USA  
J ENVIRON SCI HEALTH A-SCI E 1991, 26 (3) 305

Analytical application of ion selective electrodes for the determination of nitrates in wines

Feier U, Goetsch PH//Inst Vet Med Bundesgesundheitsamtes, Thielallee 88-92, W-1000 Berlin 33, FRG  
MILCHWISSENSCHAFT 1991, 46 (3) 170

Inter-laboratory studies on precision characteristics of analytical methods. 2. Determination of nitrate content in milk and milk products - Xylenol method

Pinche C, Billard JP, Frasey AM, Bargnoux H, Vu BD, Yonger J, Poma JP, Saudan M, Petit J, Berger JA//Univ Clermont Ferrand, Fac Pharm, Chim Analyt & Bromatol Lab, BP 38, F-63001 Clermont Ferrand, France  
SCI ALIMENT 1991, 11 (2) 215

Differential determination by chemiluminescence of nitrite and nitrosocompounds in pork products (French, English Abstract)

Parr RM, Demaeayer EM, Iyengar VG, Byrne AR, Kirkbright GF, Schoch G, Niinisto L, Pineda O, Vis HL, Hofvander Y et al//Int Atom Energy Agcy, A-1400 Vienna, Austria  
BIOL TR ELEM 1991, 29 (1) 51

Minor and trace elements in human milk from Guatemala, Hungary, Nigeria, Philippines, Sweden, and Zaire - Results from a WHO/IAEA joint project

## 8 DRUG, BIOCIDES & CHEMICAL RESIDUES

Castle L, Campos MJ, Gilbert J//MAFF, Food Sci Lab, Colney Lane, Norwich NR4 7UQ, England  
J SCI FOOD AGR 1991, 54 (4) 549

Determination of acrylamide monomer in hydroponically grown tomato fruits by capillary gas chromatography mass spectrometry

Jinbo K, Monma C, Maruyama T, Matsumoto M//Tokyo Metropolitan Res Lab Publ Hlth, 3-24-1 Hyakunin cho, Shinjuku ku, Tokyo 160, Japan  
J FOOD HYG SOC JPN 1991, 32 (2) 86

Simplified classification method for residual antibacterial agents in meat by microbiological assay (Japanese, English Abstract)

Simko P//Slovak Tech Univ, Fac Chem Technol, Dept Chem & Technol Saccharides & Foods Radlinskeho 9, CS-81237 Bratislava, Czechoslovakia

FOOD CHEM 1991, 40 (3) 293

Changes of benzo(a)pyrene contents in smoked fish during storage

Simko P, Gombita M, Karovicova J//Slovak Tech Univ, Fac Chem Technol, Dept Chem & Technol Saccharides & Foods, Radlinskeho 9, CS-81237 Bratislava, Czechoslovakia

NAHRUNG 1991, 35 (1) 103

Determination and occurrence of benzo[a]pyrene in smoked meat products

Binnendijk GM, Aerts MML, Keukens HJ\*, Brinkman UAT//State Inst Qual Control Agr Prod Rikilt, POB 230, 6700 AE Wageningen, The Netherlands

J CHROMATOGR 1991, 54 (1-2) 401

Optimization and ruggedness testing of the determination of residues of carbadox and metabolites in products of animal origin - Stability studies in animal tissues

Kendrick PN, Trim AJ, Atwal JK, Brown PM\*\*//MAFF, Agr Dev & Advisory Serv, Cent Sci Lab, Hook Rise S, Totworth KT6 7NF, Surrey, England

BULL ENVIRON CONTAM TOXICOL 1991, 46 (5) 654

Direct gas chromatographic determination of carbaryl residues in honeybees (*Apis mellifera* L) using a nitrogen-phosphorus detector with confirmation by formation of a chemical derivative

Matthews WA//MAFF, Agr Dev & Advisory Serv, Cent Sci Lab, London Rd, Slough SL3 7HJ, England

PESTIC SCI 1991, 31 (2) 141

An investigation of the non-solvent-extractable residues of (<sup>14</sup>C) chlorpyrifos-methyl in stored wheat

Degroodt JM, Debukanski BW, Degroof J, Beernaert H//Minist Sante Publ & Environnement, 14 rue J Wytzman, B-1050 Brussels, Belgium  
Z LEBENSMITTEL-UNTERSUCH FORS 1991, 192 (5) 430

Cimaterol and clenbuterol residue analysis by HPLC-HPTLC in liver

Scrano L, Faretra F, Cariddi C, Antonacci E, Bufò SA//Univ Bari, Ist Chim Agraria, via Amendola 165-A, I-70126 Bari, Italy

PESTIC SCI 1991, 31 (1) 37

Evaluation of dicarboximide residues in cold-stored grapes exposed to field and post-harvest treatments

Rogstad A, Hormazabal V, Yndestad M//Apothekernes Lab AS, POB 158, N-0212 Oslo 2, Norway

J LIQ CHROMATOGR 1991, 14 (3) 521

Extraction and high performance liquid chromatographic determination of enrofloxacin in fish serum and tissues

Zimmerli B, Schlatter J//Swiss Fed Off Publ Hlth, Div Food Sci, Haslerstr 16, CH-3000 Bern 14, Switzerland

MUTAT RES 1991, 259 (3-4) 324

Ethyl carbamate - Analytical methodology, occurrence, formation, biological activity and risk assessment

Felton JS, Knize MG//Univ Calif Lawrence Livermore Natl Lab, Div Biomed Sci, POB 5507, Livermore, Ca 94550, USA

MUTAT RES 1991, 259 (3-4) 205

Occurrence, identification, and bacterial mutagenicity of heterocyclic amines in cooked food

Maruyama K, Suzuki T, Saito Y//Japan Grain Inspect Assoc, Cent Res Lab, 2-17-3 Arai, Ichikawa, Chiba, Japan

J FOOD HYG SOC JPN 1991, 32 (2) 98

Gas chromatographic determination of metolachlor in agricultural products (Japanese, English Abstract)

Hable M, Stern C, Asowata C, Williams K//USA, Environm Hyg Agcy, Div Organ Environm Chem, Aberdeen Proving Ground, Md 21010, USA

J CHROMATOGR SCI 1991, 29 (4) 131

The determination of nitroaromatics and nitramines in ground and

drinking water by wide-bore capillary gas chromatography

Miyahara M, Sasaki K, Suzuki T, Saito Y//Natl Inst Hyg Sci, Div Food, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan  
CHEM PHARM BULL TOKYO 1991, 39 (4) 1055

Expanded coagulating cleanup procedures for simultaneous gas chromatographic determination of organophosphorus pesticides in crops and fruits

Shivhare P, Gupta VK\*\*//Ravishankar Univ, Dept Chem, Raipur 493010, Madhya Pradesh, India  
ANALYST 1991, 116 (4) 391

Spectrophotometric method for the determination of paraquat in water, grain and plant materials

Huang LQ, Eitzer B, Moore C, McGown S, Tomer KB//Connecticut Agr Expt Stn, Box 1106, New Haven, Ct 06504, USA  
BIOL MASS SPECTROM 1991, 20 (4) 161

The application of hybrid mass spectrometry/mass spectrometry and high-resolution mass spectrometry to the analysis of fish samples for polychlorinated dibenzo-para-dioxins and dibenzofurans

Ryan JJ, Conacher HBS, Panopio LG, Lau BPY, Hardy JA, Masuda Y//Hlth & Welf Canada, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2  
J CHROMATOGR 1991, 54 (1-2) 131

Gas chromatographic separations of all 136 tetra-polychlorinated to octa-polychlorinated dibenzo-para-dioxins and polychlorinated dibenzofurans on 9 different stationary phases

Thompson TS, Kolic TM, MacPherson KA//Saskatchewan Hlth, Lab & Dis Control Serv Branch, HE Robertson Lab, 3211 Albert St, Regina, Saskatchewan, Canada S4S 5W6  
J CHROMATOGR 1991, 543 (1) 49

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-para-dioxins and dibenzofurans in fish tissue

Liu CH, Mattern GC, Yu XB, Rosen RT, Rosen JD\*\*//Rutgers State Univ, Cook Coll, Dept Food Sci, New Brunswick, NJ 08903, USA  
J AGR FOOD CHEM 1991, 39 (4) 718

Multiresidue determination of nonvolatile and thermally labile pesticides in fruits and vegetables by thermospray liquid chromatography/mass spectrometry

Mattern GC, Liu CH, Louis JB, Rosen JD\*\*//Rutgers State Univ, Cook Coll, Dept Food Sci, New Brunswick, NJ 08903, USA  
J AGR FOOD CHEM 1991, 39 (4) 700

GC/MS and LC/MS determination of 20 pesticides for which dietary oncogenic risk has been estimated

Reddy NR, Flick GJ, Arganosa GC, Young RW//US FDA, Ctr Food Safety & Technol, Washington, DC 20204, USA  
J FOOD PROTECT 1991, 54 (4) 298

Composition and pesticide and herbicide residue analysis of fresh and 40-year-old pasteurized blue crab (*Callinectes sapidus*) meat

Takeda Y, Goda Y, Kawasaki Y, Kamikura M, Yoshihira K//Natl Inst Hyg Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan  
J FOOD HYG SOC JPN 1991, 32 (2) 93

Determination of sodium chlorite and sodium hypochlorite in mixtures (Japanese, English Abstract)

Ikai Y, Oka H, Kawamura N, Hayakawa J, Yamada M, Harada KI, Suzuki M, Nakazawa H//Aichi Prefectural Inst Publ Hlth, Nagare 7-6, Tsuji machi, Kita ku, Nagoya 462, Japan

J CHROMATOGR 1991, 54 (1-2) 393

Improvement of chemical analysis of antibiotics. 17. Application of an amino cartridge to the determination of residual sulphonamide antibacterials in meat, fish and egg

Adachi J, Mizoi Y, Naito T, Ogawa Y, Uetani Y, Ninomiya I//Kobe Univ, Sch Med, Dept Legal Med, Kobe 650, Japan  
J NUTR 1991, 121 (5) 646

Identification of tetrahydro-beta-carboline-3-carboxylic acid in food-stuffs, human urine and human milk

Nagata T, Saeki M//Chiba Prefectural Inst Publ Hlth, 666-2 Nitona cho, Chiba 280, Japan  
J CHROMATOGR-BIOMED APPL 1991, 565 (1-2) 471

Determination of thiamphenicol residues in chicken muscles by column liquid chromatography

Meyer RA, Hubner D, Grubner P//Bezirks Hyg Spek & Hyg Inst, Reichenbachstr 71-73, O-8020 Dresden, FRG  
NAHRUNG 1991, 35 (1) 105

Determination of thiazafurone in drinking water

Lach G, Standecke U, Pletsch B, Xu L, Parlar H\*\*//Univ Gesamthsch Kassel, Heinrich Plett Str 40, W-3500 Kassel, FRG  
Z LEBENSMITTEL-UNTERSUCH FORS 1991, 192 (5) 440

A contribution to the quantification of toxaphene residues in fish oils (French, English Abstract)

Benfenati E, Natangelo M, Davoli E, Fanelli R//Mario Negri Inst Pharmacol Res, Environm Pharmacol & Toxicol Lab, via Eritrea 62, I-20157 Milan, Italy  
FOOD CHEM TOXICOL 1991, 29 (2) 131

Migration of vinyl chloride into PVC-bottled drinking-water assessed by gas chromatography mass spectrometry

## 9 TOXINS

Adachi Y, Hara M, Kumazawa NH, Hirano K, Ueno I, Egawa K//Natl Inst Anim Hlth, 3-1-1 Kannondai, Yatabe, Ibaraki 305, Japan  
J VET MED SCI 1991, 53 (1) 49

Detection of aflatoxin-B<sub>1</sub> in imported food products into Japan by enzyme-linked immunosorbent assay and high performance liquid chromatography

Azer M, Cooper C//Dept Hlth NSW, Div Analyt Labs, POB 162, Lidcombe, NSW 2141, Australia  
J FOOD PROTECT 1991, 54 (4) 291

Determination of aflatoxins in foods using HPLC and a commercial ELISA system

Fonseca H//Univ Sao Paulo, Escola Super Agr Luiz Queiroz, Dept Ciencia & Tecnol Agroind, Av Padua Dias 11, BR-13400 Piracicaba, SP, Brazil  
REV MICROBIOL 1991, 22 (1) 66

Sampling plan for analysis of aflatoxins in grains (Portuguese, English Abstract)

Harrison JC, Garner RC//Univ York, Dept Biol, Canc Res Unit, York YO1 5DD, England  
CARCINOGENESIS 1991, 12 (4) 741

Immunological and HPLC detection of aflatoxin adducts in human tissues after an acute poisoning incident in SE Asia

Sharman M, Gilbert J\*\*//MAFF, Food Sci Lab, Colney Lane, Norwich NR4 7UQ, England  
J CHROMATOGR 1991, 543 (1) 220

Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination

Annapurna SS, Ramadoss CS, Prasad DS\*\*/Andhra Univ, Dept Biochem, Waltair 530003, Andhra Pradesh, India  
J SCI FOOD AGR 1991, 54 (4) 605

Characterisation of a trypsin chymotrypsin inhibitor from jack fruit (*Artocarpus integrifolia*) seeds

Asao T, Imai F, Tsuji I, Tashiro M, Iwami K, Ibuki F\*\*/Kyoto Prefectural Univ, Fac Agr, Dept Agr Chem, Sakyo ku, Kyoto 606, Japan  
AGR BIOL CHEM TOKYO 1991, 55 (3) 707

Purification and characterization of a Bowman-Birk type proteinase inhibitor from faba beans (*Vicia faba* L)

Weder JKP, Haussner K//Tech Univ Munich, Inst Lebensmittelchem, Lichtenbergstr 4, W-8046 Garching, FRG  
Z LEBENSMITTEL-UNTERSUCH FORS 1991, 192 (5) 455

Inhibitors of human and bovine trypsin and chymotrypsin in fenugreek (*Trigonella foenum-graecum* L) seeds - Demonstration and purification

Bowman DT, Hagler WM//N Carolina State Univ, Dept Crop Sci, Box 8604, Raleigh, NC 27695, USA  
J PROD AGRIC 1991, 4 (1) 132

Potential use of visual mold ratings to predict mycotoxin contamination of grain sorghum

Martlbauer E, Dietrich R, Terplan G//Inst Polytech Nacl Carpio & Plan Ayala, Escuela Nacl Ciencias Biol, Dept Morfol, Genet Lab, Mexico City, DF, Mexico  
ARCH LEBENS-M-HYG 1991, 42 (1) 3

Practical knowledge with the application of immunoassays for the detection of mycotoxins in food (German, English Abstract)

Ishii Y//Mukogawa Womens Univ, Dept Home Sci, Nishinomiya, Hyogo 663, Japan  
ANAL SCI 1991, 7 (2) 263

Extraction and ion chromatographic determination of free and combined oxalic acids in vegetables

Thibault P, Pleasance S, Laycock MV//Nat'l Res Council Canada, Atlantic Reg Lab, Inst Marine Biosci, 1411 Oxford St, Halifax, NS, Canada B3H 3Z1

J CHROMATOGR 1991, 542 (2) 483

Analysis of paralytic shellfish poisons by capillary electrophoresis

Kostianinen R, Kuronen P//Food & Environm Lab Helsinki, Helsinginkatu 24, SF-00530 Helsinki, Finland  
J CHROMATOGR 1991, 543 (1) 39

Use of 1-[p-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography thermospray and dynamic fast atom bombardment mass spectrometry

## 10 ADDITIVES

Kabasawa Y, Shinomiya K, Nakazawa H, Tanimura T, Fujita M//Nihon Univ, Coll Pharm, Funabashi 274, Japan  
ANAL SCI 1991, 7 (2) 273

Purification of Food Blue No 1 by rotation locular countercurrent chromatography

Itawi RK, Aljobori SM, Jalil M, Farhan SS, Mheemeed A, Sauced K, Ahmed E//Iraqi Atom Energy Commiss, Nucl Res Ctr, POB 765,

Baghdad, Iraq

J RADIOANAL NUCL CHEM ART 1991, 149 (2) 333

Analysis of some food colouring substances by the method in INAA

Analytical Methods Committee//Address not available  
ANALYST 1991, 116 (4) 415

Determination of nitrovin in medicated animal feeds by high-performance liquid chromatography

Serrano FO, Lopez IS, Revilla, GN//Univ Granada, Fac Farm, Dept Nutr & Bromatol, E-18071 Granada, Spain  
J LIQ CHROMATOGR 1991, 14 (4) 709

High performance liquid chromatography determination of chemical preservatives in yogurt

Bianco L, Marucchi M//USSL 68, Sanita Lab, Piazza Alfieri 33, I-14100 Asti, Italy  
IND ALIMENT 1990, 29 (282) 449

Salicylic acid and its homologues as additives in foods - HPLC and GC/MS determination (Italian, English Abstract)

Burini G, Damiani P//Univ Perugia, Fac Farm, Ist Chim Bromatol, I-06100 Perugia, Italy  
J CHROMATOGR 1991, 543 (1) 69

Determination of sorbic acid in margarine and butter by high-performance liquid chromatography with fluorescence detection

Melamed DB, Lyapkov BG, Medvedev FA//Acad Med Sci USSR, Inst Nutr, Moscow 109801, USSR  
J ANAL CHEM USSR-ENGL TR 1990, 45 (8) PT 2, 1185

Determination of benzoic and sorbic acids and their salts in foodstuffs

## 11 FLAVOURS & AROMAS

Voulgaropoulos A, Soulis T, Andricopoulos N//Aristotelian Univ Salonika, Dept Analyt Chem, Salonika, Greece  
AMER J ENOL VITICULT 1991, 42 (1) 73

Fluorimetric determination of biacetyl in wines after condensation with 3,4-diaminoanisole

Lehr M, Schmid W//Landesuntersuchungsamt Gesundheitswesen Sudbayern, Veterinarstr 2, W-8042 Oberschleissheim, FRG  
Z LEBENSMITTEL-UNTERSUCH FORS 1991, 192 (4) 335

Simple and specific HPLC procedure for determination of cyclamate in fruit juice beverages after conversion to N,N-dichlorocyclohexylamine

Sen A, Laskawy G, Schieberle P, Grosch W\*\*/Deutsch Forschungsanstalt Lebensmittelchem, Lichtenbergstr 4, W-8046 Garching, FRG  
J AGR FOOD CHEM 1991, 39 (4) 757

Quantitative determination of beta-damascenone in foods using a stable isotope dilution assay

Guyot B, Cochard B, Vincent JC//CIRAD, Inst Rech Cafe Cacao, Chim Technol Lab, Ave Val Montferrand, BP 5035, F-34032 Montpellier 01, France  
CAFE CACAO THE 1991, 35 (1) 49

Quantitative determination of dimethylsulphide and dimethyldisulphide in coffee aroma - Application to stinking roasted arabica coffees

Tanchotikul U, Hsieh TCY\*\*/Ross Labs, Analyt R&D, 623 Cleveland Ave, Columbus, Oh 43215, USA  
J FOOD SCI 1991, 56 (2) 327

Analysis of volatile flavor components in steamed rangia clam by dynamic headspace sampling and simultaneous distillation and extraction

Chung SY, Vercellotti JR, Johnsen PB, Klesius PH//USDA ARS,

South Reg Res Ctr, POB 19687, 1100 Robert E Lee Blvd, New Orleans, La 70179, USA

J AGR FOOD CHEM 1991, 39 (4) 764

Development of an enzyme-linked immunosorbent assay for geosmin

Krause G, Kotter L//Univ Munich, Fak Tierarztl, Inst Hyg & Technol Lebensmittel Tierisch Ursprungs, Vet Str 13, W-8000 Munich 22, FRG

ARCH LEBENS-M-HYG 1991, 42 (1) 12

Organoleptic examination of food (German, English Abstract)

## 12 ORGANIC ACIDS

Hase A, Saikkonen P//Tech Res Ctr Finland, Chem Lab, POB 204, SF-02150 Espoo, Finland

FETT WISS TECHNOL 1991, 93 (3) 112

A microevaporation method and its application in determination of boiling points of carboxylic acids and esters

Marce RM, Calull M, Olucha JC, Borrull F, Rius FX//Univ Barcelona, Dept Chem, PCA Imperial Tarraco 1, E-43005 Tarragona, Spain

J CHROMATOGR 1991, 542 (2) 277

Optimized isocratic separation of major carboxylic acids in wine

Buglass AJ, Garnham SC//Anglia Higher Educ Coll, Dept Sci, E Rd, Cambridge CB1 1PT, England

AMER J ENOL VITICULT 1991, 42 (1) 63

A novel method for the determination lactic acid - Comparison of lactic acid content of English and North European wines

Correa-Gorospe I, Polo MC, Rodriguez-Badiola E, Rodriguez-Clemente R//CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain

FOOD CHEM 1991, 41 (1) 69

Composition of tartrate precipitates in white wines used for making Spanish sparkling wine

Kupina SA, Pohl CA, Gannotti JL//Heublein Wines Inc, 12667 Rd 24, Madera, Ca 93639, USA

AMER J ENOL VITICULT 1991, 42 (1) 1

Determination of tartaric, malic, and citric acids in grape juice and wine using gradient ion chromatography

## 13 ANIMAL PRODUCTS

Martin R, Wardale RJ, Jones SJ, Hernandez PE, Patterson RLS//Univ Complutense, Fac Vet, Dept Higiene & Tecnol Alimentos, E-28040 Madrid, Spain

MEAT SCI 1991, 30 (1) 23

Monoclonal antibody sandwich ELISA for the potential detection of chicken meat in mixtures of raw beef and pork

Hoshi M, Sasamoto Y, Nonaka M, Toyama K, Watanabe E//Taiyo Fisheries Co Ltd, Taiyo Cent Res & Dev Inst, Tsukishima 3, Chuo ku, Tokyo 104, Japan

BIOSENS BIOELECTRON 1991, 6 (1) 15

Microbial sensor system for nondestructive evaluation of fish meat quality

Doi T, Kanzaki M, Matsumoto K//Morinaga Milk Ind Co Ltd, Engn Res Ctr, 4-515 Tateno higashiyamato shi, Tokyo 189, Japan

J JPN SOC FOOD SCI TECHNOL 1991, 38 (3) 221

The rapid and simple method for the estimation of titratable acidity of raw milk (German, English Abstract)

Garcia T, Martin R, Rodriguez E, Azcona JI, Sanz B, Hernandez

PE\*\*//Univ Complutense, Fac Vet, Dept Nutr & Bromatol Higiene & Tecnol Alimentos 3, E-28040 Madrid, Spain

J FOOD PROTECT 1991, 54 (5) 366

Detection of bovine milk in ovine milk by a sandwich enzyme-linked immunosorbent assay (ELISA)

Amer HA, Sedik MF, Khalafalla FA, Awad HAE//Univ Cairo, Fac Vet Med, Dept Biochem, POB 12211, Giza, Egypt

NAHRUNG 1991, 35 (2) 133

Results of chemical analysis of prawn muscle as influenced by sex variations

Lin RS, Orcutt MW\*, Patterson JA, Judge MD//Viskase Corp, 6855 W 65th St, Chicago, Il 60638, USA

MEAT SCI 1991, 30 (1) 33

Serum skatole detection using gas chromatography and high-performance liquid chromatography

Jawad MA, Dorie J, Elmurr N//Univ Nantes, CNRS, Resonance Magnet Nucl & Reactive Chim, Electrochim Grp, NR D0472, rue Houssiniere, F-44072 Nantes 03, France

J FOOD SCI 1991, 56 (2) 594

Electrochemical quantitative analysis of uric acid in milk

## 14 PLANT & MICROBIAL PRODUCTS

Lee HS, Wicker L//Florida Dept Citrus, 700 Exptl Stn Rd, Lake Alfred, Fl 33850, USA

FOOD CHEM 1991, 40 (3) 263

Quantitative changes in anthocyanin pigments of lychee fruit during refrigerated storage

Berger A, Bruhart M, Prodollet J\*\*//Nestle SA, Soc Assistance Tech Prod Nestle SA, Ave Nestle 55, CH-1800 Vevey, Switzerland

FOOD SCI TECHNOL-LEBENS-M WISS 1991, 24 (1) 59

Detection of adulteration in pure soluble coffee by enzymatic sugar determination

Jeremias M, Nagel A, Ledl F//Chem Landesuntersuchungsanstalt Stuttgart, Breitscheidstr 4, W-7000 Stuttgart 1, FRG

DEUT LEBENS-M-RUNDSCH 1991, 87 (4) 103

Detection of gibberellic acid in barley malt (German, English Abstract)

Poling SM//USDA ARS, Fruit & Vegetable Chem Lab, 263 S Chester Ave, Pasadena, Ca 91106, USA

J AGR FOOD CHEM 1991, 39 (4) 677

Identification of endogenous gibberellins in immature navel orange fruit

Matsumoto K, Matsubara H, Hamada M, Doi T, Osajima Y//Kyushu Univ, Fac Agr, Dept Food Sci & Technol, 46-09 Hakozaki, Higashi ku, Fukuoka 812, Japan

AGR BIOL CHEM TOKYO 1991, 55 (4) 1055

Determination of glycerol in wine by amperometric flow injection analysis with an immobilized glycerol dehydrogenase reactor

Monteiro FF, Bisson LF\*\*//Univ Calif Davis, Dept Viticulture & Enol, Davis, Ca 95616, USA

AMER J ENOL VITICULT 1991, 42 (1) 47

Biological assay of nitrogen content of grape juice and prediction of sluggish fermentations

Roggero JP, Archier P, Coen S//Fac Sci Avignon, Chim Organ & Analyt Lab, 33 rue Louis Pasteur, F-84000 Avignon, France

J LIQ CHROMATOGR 1991, 14 (3) 533



Wine phenolics analysis via direct injection - Enhancement of the method

Bongers AJ, Hinsch RT, Bus VG//USDA ARS, European Mkt Res Ctr, Marconistr 38, Rotterdam, The Netherlands

AMER J ENOL VITICULT 1991, 42 (1) 76

Physical and chemical characteristics of raisins from several countries

Amarowicz R, Shimoyamada M, Okubo K//Polish Acad Sci, Ctr Agrotechnol & Vet Sci, Dept Food Sci, Kortowo 43, POB 55, PL-10718 Olsztyn, Poland

NAHRUNG 1991, 35 (2) 217

Application of reversed phase liquid chromatography in the analysis of saponins in faba bean

Shiraiwa M, Harada K, Okubo K//Ibaraki Univ, Fac Agr, Biochem Lab, Ibaraki 30003, Japan

AGR BIOL CHEM TOKYO 1991, 55 (4) 911

Composition and structure of group-B saponin in soybean seed

Bailey RG, Nursten HE, McDowell I\*\*//Nat Resources Inst, Cent Ave, Chatham ME4 4TB, England

J CHROMATOGR 1991, 542 (1) 115

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins

Dale CJ//Univ Birmingham, Sch Biochem, POB 363, Birmingham B15 2TT, England

J INST BREW 1991, 97 (3) 187

Applications of column chromatography to the analysis of brewing raw materials, wort and beer