



# Bibliography on analytical food chemistry

## 1 BOOKS, REVIEWS & SYMPOSIA

Hudson BJF (Ed)  
Food Antioxidants  
Elsevier Applied Food Science Series  
Includes chapter on: Detection, estimation and evaluation of antioxidants in food systems  
Elsevier Appl Sci Publ Ltd (Barking England) 1990, 317pp, \$104.00  
Hardbound, ISBN: 1-85166-440-8

Tweedy BG, Dishburger HJ, Ballatine LG, McCarthy J (Eds)  
Pesticide Residues and Food Safety - A Harvest of Viewpoints  
ACS Symposium Series, Vol 446  
Special Conf at Point Clear, AL, USA January 1990, Amer Chemical Soc (Washington) 1991, 360pp, \$59.95 Hardbound, ISBN: 0-8412-1889-7

## 2 GENERAL

Prival MJ, Simmon VF, Mortelmans KE//US FDA, Genet Toxicol Branch HFF-166, 200 C St SW, Washington, DC 20204, USA  
MUTAT RES 1991, 260 (4) 321  
Bacterial mutagenicity testing of 49 food ingredients gives very few positive results

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Tanaka T, Oshida K, Ichishima E//Tohoku Univ, Fac Agr, Dept Agr Chem, 1-1 Tsutsumidori amamiyamachi, Sendai 981, Japan  
AGR BIOL CHEM TOKYO 1991, 55 (8) 2179  
Electron microscopic analysis of dimeric form of aminopeptidase E<sub>y</sub> from hen's egg yolk

Matsuoka H, Fuke Y, Kaminogawa S, Yamauchi K//Tachikawa Coll Tokyo, Dept Food & Nutr, 3-6-33 Azumacho, Akishima, Tokyo 196, Japan  
J AGR FOOD CHEM 1991, 39 (8) 1392  
Purification and debittering effect of aminopeptidase-II from *Penicillium caseicola*

Leung EM, Kuzmanoff KM, Beattie CW//FMC Corp, Agr Chem Grp, Box 8, Princeton, NJ 08543, USA  
J DAIRY SCI 1991, 74 (9) 2872  
Isolation and characterization of monoclonal antibody directed against bovine- $\alpha$ 2-casein

Saito T, Yamaji A, Itoh T//Tohoku Univ, Coll Agr, Anim Prod Chem Lab, Sendai, Miyagi 980, Japan  
J DAIRY SCI 1991, 74 (9) 2831  
A new isolation method of caseinoglycopeptide from sweet cheese

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Yamashita M, Konagaya S//Natl Res Inst Fisheries Sci, Kachidoki 5, Chuo ku, Tokyo 104, Japan  
J AGR FOOD CHEM 1991, 39 (8) 1402  
Immunohistochemical localization of cathepsin-B and cathepsin-L in the white muscle of chum salmon (*Oncorhynchus keta*) in spawning migration - Probable participation of phagocytes rich in cathepsins in extensive muscle softening of the mature salmon

Bajomo MF, Young TW//Univ Birmingham, Sch Biochem, POB 363, Birmingham B15 2TT, W Midlands, England  
J INST BREW 1990, 96 (6) 373  
Measurement of diastatic power

Smith SH, Judge MD\*//Purdue Univ, Dept Anim Sci, W Lafayette, IN 47907, USA  
MEAT SCI 1991, 30 (4) 351  
An HPLC method using FMOC-ADAM for determination of hydroxyproline in muscle

Mao FC, Bremel RD\*//Univ Wisconsin, Endocrinol Reprod Physiol Program, Madison, WI 53706, USA  
J DAIRY SCI 1991, 74 (9) 2946  
Enzyme-linked immunosorbent assays for bovine alpha-lactalbumin and beta-lactoglobulin in serum and tissue culture media

Owusu RK//Univ Leeds, Procter Dept Food Sci, Woodhouse Lane, Leeds LS2 9JT, England  
FOOD CHEM 1992, 43 (1) 41  
The effect of calcium on bovine alpha-lactalbumin conformational transitions by ultraviolet difference and fluorescence spectrophotometry

Teahan CG, McKenzie HA, Shaw DC, Griffiths M//Univ London Univ Coll, Fac Clin Sci, Rayne Inst, Univ St, London WC1E 6JJ, England  
BIOCHEM INT 1991, 24 (1) 85  
The isolation and amino acid sequences of echidna (*Tachyglossus aculeatus*) milk lysozyme-I and lysozyme-II

Ogbomo I, Kittsteinereberle R, Engbrecht U, Prinzing U, Danzer J, Schmidt HL//Tech Univ Munich, Lehrstuhl Allgemeine Chem & Biochem, W-8050 Freising, FRG  
ANAL CHIM ACTA 1991, 249 (1) 137  
Flow-injection systems for the determination of oxidoreductase substrates - Applications in food quality control and process monitoring

Matthew JA, Wyatt GM, Archer DB, Morgan MRA//AFRC, Inst Food Res, Norwich NR4 7UA, England

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 & 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

CARBOHYD POLYM 1991, 16 (4) 381

Purification of a sugarbeet pectin modifying enzyme system from *Aspergillus niger* by antibody affinity column chromatography

Fujita S, Tono T, Kawahara H//218 Reed Circle, Mill Valley, Ca 94941, USA

J SCI FOOD AGR 1991, 55 (4) 643

Purification and properties of polyphenol oxidase in head lettuce (*Lactuca sativa*)

Leverone LA, Stroup TL, Caruso JL\*\*/Univ Cincinnati, Dept Biol Sci, Cincinnati, Oh 45221, USA

PLANT PHYSIOL 1991, 96 (4) 1076

Western blot analysis of cereal grain prolamins using an antibody to carboxyl-linked indoleacetic acid

Inouye K//Kyoto Univ, Fac Agr, Dept Food Sci & Technol, Kyoto 606, Japan

AGR BIOL CHEM TOKYO 1991, 55 (8) 2129

Chromatographic behaviors of proteins and amino acids on a gel filtration matrix, TSK-GEL Toyopearl

Josephine RM, Janardhanan K//Bharathiar Univ, Seed Physiol Lab, Dept Bot, Coimbatore 641 046, India

FOOD CHEM 1992, 43 (1) 13

Studies on chemical composition and antinutritional factors in three germplasm seed materials of the tribal pulse, *Mucuna pruriens* (L) DC

Kim YA, Barbeau WE//NIABA, Rockville, Md 20857, USA

J FOOD SCI 1991, 56 (4) 1082

Evaluation of SDS-PAGE method for estimating protein digestibility

LeBlanc EL, LeBlanc RJ//Univ Alberta, Dept Food Nutr, Fac Home Econ, 308D Home Econ Bldg, Edmonton, Alberta, Canada T6G 2M8

FOOD CHEM 1992, 43 (1) 3

Determination of hydrophobicity and reactive groups in proteins of cod (*Gadus morhua*) muscle during frozen storage

#### 4 CARBOHYDRATES

Neeser JR, Golliard M, Delvedovo S//Nestec Ltd, Nestle Res Ctr, Vers Chez Les Blanc, POB 44, CH-1000 Lausanne 26, Switzerland

J DAIRY SCI 1991, 74 (9) 2860

Quantitative determination of complex carbohydrates in bovine milk and in milk-based infant formulas

Takano Y, Furihata K, Yamazaki S, Okubo A, Toda S//Calpis Food Ind Co Ltd, Ctr Res & Dev, 2-4-1 Ebisu Minami, Shibuya ku, Tokyo 150, Japan

J JPN SOC FOOD SCI TECHNOL 1991, 38 (8) 681

Identification and composition of low molecular weight carbohydrates in commercial soybean oligosaccharide syrup (Japanese, English Abstract)

Ene-Obong HN, Carnovale E//Univ Nigeria, Dept Home Sci & Nutr, Nsukka, Anambra State, Nigeria

FOOD CHEM 1992, 43 (1) 29

Nigerian soup condiments: Traditional processing and potential as dietary fibre sources

Ogawa K, Yui T, Mizuno T//Univ Osaka, Adv Sci & Technol Res Inst, Shinke cho, Sakai, Osaka 593, Japan

AGR BIOL CHEM TOKYO 1991, 55 (8) 2105

X-ray diffraction study of glucomannans and their acetates

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

J JPN SOC FOOD SCI TECHNOL 1991, 38 (8) 699

Simultaneous determination of glucose, ethanol, glycerol and sulfite in white wine by flow injection analysis including parallel configuration of immobilized enzyme columns (Japanese, English Abstract)

Lange R, Petrzika M//Zent Inst Ernährung, Arthur Scheunert Alle 114-116, O-1505 Bergholz, FRG

FETT WISS TECHNOL 1991, 93 (8) 284

About sulfur containing glycosides of rape seeds - Analysis by thermospray technique/mass spectrometry (German, English Abstract)

Thurl S, Offermanns J, Muller-Werner B, Sawatzki G//Milupa AG, Res Dept, Bahnstr 14-30, W-6382 Friedeichsdorf, FRG

J CHROMATOGR-BIOMED APPL 1991, 568 (2) 291

Determination of neutral oligosaccharide fractions from human milk by gel permeation chromatography

Deruiter GA, Van der Lugt AW, Voragen AGJ, Rombouts FM\*, Notermans SHW\*\*/Wageningen Univ Agr, Dept Food Sci, Bomenweg 2, 6703 HD Wageningen, The Netherlands

CARBOHYD RES 1991, 215 (1) 47

High-performance size-exclusion chromatography and ELISA detection of extracellular polysaccharides from *Mucorales*

Van Riel J, Olicman C\*\*/Netherlands Inst Dairy Res, Kernhemseweg 2, 6718 ZB Ede, The Netherlands

CARBOHYD RES 1991, 215 (1) 39

Selectivity control in the anion-exchange chromatographic determination of saccharides in dairy products using pulsed amperometric detection

Cho SI, Bellon V, Eads TM, Strohshne RL, Krutz GW//Purdue Univ, Dept Agr Engr, W Lafayette, In 47907, USA

J FOOD SCI 1991, 56 (4) 1091

Sugar content measurement in fruit tissue using water peak suppression in high resolution <sup>1</sup>H magnetic resonance

Peris-Tortajada M, Puchades R, Maquieira A\*\*/Polytech Univ Valencia, Dept Chem, E-46022 Valencia, Spain

FOOD CHEM 1992, 43 (1) 65

Determination of reducing sugars by the neocuproine method using flow injection analysis

Sone Y, Sato K, Misaki A//Osaka City Univ, Fac Sci Living, Dept Food & Nutr, Sumiyuoshi ku, Osaka 558, Japan

AGR BIOL CHEM TOKYO 1991, 55 (8) 2155

Determination of plant xyloglucan by enzyme-linked immunosorbent assay

#### 5 LIPIDS

Kamata T, Tanno H, Ohrai H, Meguro H//Jyumonji Gakuen Womens Coll, Div Food & Nutr, 2-1-28 Sugawara, Niiza 352, Japan

AGR BIOL CHEM TOKYO 1991, 55 (8) 1989

A sensitive enzymatic determination of acylglycerol hydroperoxides by lipase and glutathione peroxidase with N-(9-acridinyl)maleimide fluorometry

Cebula DJ, Smith KW//Unilever Res Labs, Colworth Lab, Sharnbrook MK44 1LQ, Beds, England

J AMER OIL CHEM SOC 1991, 68 (8) 591

Differential scanning calorimetry of confectionery fats - Pure triglycerides - Effects of cooling and heating rate variation

Kamata T, Tanno H, Ohrai H, Meguro H//*Jyusouji Gakuen Womens Coll, Div Food & Nutr, 2-1-28 Sugawara, Niiza 352, Japan*  
**AGR BIOL CHEM TOKYO** 1991, 55 (8) 1985  
 A sensitive enzymatic determination of fatty acid hydroperoxide by glutathione peroxidase with N-(9-acrydinyl)maleimide fluorometry

Christie WW//*Hannah Res Inst, Ayr KA6 5HL, Scotland*  
**REV FR CORPS GRAS** 1991, 38 (5-6) 155  
 Recent developments in high-performance liquid and gas chromatography of lipids

Vasanthan T, Hoover R\*\*//*Mem Univ Newfoundland, Dept Biochem, St John's, Newfoundland, Canada A1B 3X9*  
**FOOD CHEM** 1992, 43 (1) 19  
 A comparative study of the composition of lipids associated with starch granules from various botanical sources

Gordon MH, Griffith RE//*Univ Reading, Dept Food Sci & Technol, Whiteknights, PO Box 226, Reading RG6 2AP, England*  
**FOOD CHEM** 1992, 43 (1) 71  
 Steryl ester analysis as an aid to the identification of oils in blends

Gunstone FD//*Univ St Andrews, Dept Chem, St Andrews KY16 9ST, Fife, Scotland*  
**CHEM PHYS LIPID** 1991, 59 (1) 83  
 High resolution NMR studies of fish oils

Kindstedt PS, Fox PF//*Univ Vermont, Dept Anim Sci, Burlington, Vt 05405, USA*  
**J FOOD SCI** 1991, 56 (4) 1115  
 Modified Gerber test for free oil in melted Mozzarella cheese

## 6 VITAMINS & CO-FACTORS

Backhect EY, Emara KM, Askal HF, Saleh GA//*Univ Assiut, Fac Pharm, Dept Pharmacognoey, Assiut, Egypt*  
**ANALYST** 1991, 116 (8) 861  
 Selective spectrophotometric method for the determination of ascorbic acid in pharmaceutical preparations and fresh fruit juices

Granado F, Olmedilla B, Blanco I, Rojas-Hidalgo E//*Clin Puerta Hierro, Nutr Serv, C San Martin Porres 4, E-28035 Madrid, Spain*  
**J LIQ CHROMATOGR** 1991, 14 (13) 2457  
 An improved HPLC method for the separation of 14 carotenoids, including 15-/13-cis-beta-carotene and 9-cis-beta-carotene isomers, phytoene and phytofluene

Saleh MH, Tan B\*\*//*Univ Massachusetts, Dept Food Sci, Amherst, Ma 01003, USA*  
**J AGR FOOD CHEM** 1991, 39 (8) 1438  
 Separation and identification of cis/trans carotenoid isomers

Goli DM, Vanderslice JT//*Catholic Univ Amer, Washington, DC 20064, USA*  
**FOOD CHEM** 1992, 43 (1) 57  
 Investigation of the conjugase treatment procedure in the microbiological assay of folate

Russell LF, Vanderslice JT//*Food Res Ctr, Agr Canada, Ottawa, Ontario, Canada K1A 0C6*  
**FOOD CHEM** 1992, 43 (1) 79  
 Comments on the standard fluorometric determination of riboflavin in foods and biological tissues

Erickson MC//*Univ Georgia, Agr Exptl Stn, Dept Food Sci & Technol, Griffin, Ga 30223, USA*

**J FOOD SCI** 1991, 56 (4) 1113  
 Extraction and quantitation of tocopherol in raw and cooked channel catfish

## 7 TRACE ELEMENTS & MINERALS

Holak W, Specchio JJ//*USDA FDA, New York Reg Lab, 850 3rd Ave, Brooklyn, NY 11232, USA*  
**AT SPECTROSC** 1991, 12 (4) 105  
 Determination of total arsenic, As(II) and As(V), in foods by atomic absorption spectrophotometry

Larsen EH//*Natl Food Agcy Denmark, Morkhoj Bygade 19, DK-2860 Soborg, Denmark*  
**J ANAL ATOM SPECTROM** 1991, 6 (5) 375  
 Electrothermal atomic absorption spectrometry of inorganic and organic arsenic species using conventional and fast furnace programmes

Momplaisir GM, Blais JS, Quinteiro M, Marshall WD\*\*//*MacDonald Coll, Dept Food Sci & Agr Chem, 21111 Lakeshore Rd, St Anne Bellevue, Quebec, Canada H9X 1C0*  
**J AGR FOOD CHEM** 1991, 39 (8) 1448

Determination of arsenobetaine, arsenocholine, and tetramethylarsonium cations in seafoods and human urine by high-performance liquid chromatography-thermochemical hydride generation-atomic absorption spectrometry

Ybanez N, Cervera ML, Montoro R//*CSIC, Inst Agroquim & Technol, Alimentos, Jaime Roig 11, E-46010 Valencia, Spain*  
**J ANAL ATOM SPECTROM** 1991, 6 (5) 379  
 Comparison of dry mineralization and microwave-oven digestion for the determination of arsenic in mussel products by platform in furnace Zeeman-effect atomic absorption spectrometry

Hidaka T, Kirigaya T, Kamijo M, Kikawa H, Kawamura T//*Yokohama City Inst Hlth, 1-2-17 Takigashira, Isogo ku, Yokohama, Japan*  
**J FOOD HYG SOC JPN** 1991, 32 (4) 308  
 Simultaneous determination of residual chlorine and volatile chlorinated organic compounds in vegetables by the head space method

Saha DC, Gilbreath RL//*St Vincents Hosp & Med Ctr, Dept Med, 153 W 11 St, New York, NY 10011, USA*  
**J SCI FOOD AGR** 1991, 55 (3) 433  
 Analytical recovery of chromium from diet and faeces determined by colorimetry and atomic absorption spectrophotometry

Van Staden JF, Van Rensburg SDJ//*Univ Pretoria, Fac Sci, Dept Chem, Pretoria 0002, South Africa*  
**ANALYST** 1991, 116 (8) 807  
 Improvement on the microdiffusion technique for the determination of ionic and ionizable fluoride in cows milk

Mahesh DL, Deosthale YG, Narasinga Rao BS//*Indian Council Med Res, Anal Div, Natl Inst Nutr, Jamai Osmania PO, Hyderabad 500007, India*  
**FOOD CHEM** 1992, 43 (1) 51  
 A sensitive kinetic assay for the determination of iodine in foodstuffs

Rao DS, Pantulu PC, Sudheendranath CS, Rao MB, Krishnan CPA//*Natl Dairy Res Inst, Bangalore 560030, India*  
**J FOOD SCI TECHNOL-MYSORE** 1991, 28 (3) 164  
 Successive complexometric estimation of iron and copper in milk by constant potential amperometry

Lamleung SY, Cheng VKW, Lam YW//*Hong Kong Bapt Coll, Dept Chem, 224 Waterloo Road, Kowloon, Hong Kong*

ANALYST 1991, 116 (9) 957

Application of a microwave oven for drying and nitric acid extraction of mercury and selenium from fish tissue

Sadiq M, Zaidi TH, Al-Mohana H//King Fahd Univ Petr & Minerals, Res Inst, Div Water Resources & Environ, Dhahran 31261, Saudi Arabia

BULL ENVIRON CONTAM TOXICOL 1991, 47 (3) 335

Sample weight and digestion temperature as critical factors in mercury determination in fish

Ikebe K, Nishimune T, Tanaka R//Osaka Prefectural Inst Publ Hlth, 1-3-69 Nakamichi, Higashinari ku, Osaka, Japan

J FOOD HYG SOC JPN 1991, 32 (4) 336

Contents of 17 metal elements in food determined by inductively coupled plasma atomic emission spectrometry - Fish and shellfishes

Sanderson JE, Consaul JR, Lee K//Univ Wisconsin, Dept Food Sci, 1605 Linden Dr, Madison, WI 53706, USA

J FOOD SCI 1991, 56 (4) 1123

Nitrate analysis in meats - Comparison of 2 methods

Alvarez GH, Capar SG//US FDA, Div Contaminants Chem, 200 C St SW, Washington, DC 20204, USA

ANAL LETT 1991, 24 (9) 1695

Continuous hydride generation-atomic absorption method for the determination of selenium and arsenic in foods

Anzano JM, Anwar J, Smith BW, Winefordner JB\*//Univ Florida, Dept Chem, Gainesville, FL 32611, USA

SPECTROSC LETT 1991, 24 (6) 837

Direct analysis of thallium in solid samples of bovine liver and tomato leaves by laser excited atomic fluorescence spectrometry using a graphite furnace

Vojnovic D, Procida G, Favretto LG\*//Univ Trieste, Dipartimento Econ & Merceol Risorse Nat & Prod, I-34100 Trieste, Italy

FOOD ADDIT CONTAM 1991, 8 (3) 343

Chemometric differentiation of raw and commercial milk by trace elements using principal component analysis

## 8 DRUG, BIOCIDES & CHEMICAL RESIDUES

Nagata T, Saeki M//Publ Hlth Lab, Chiba Prefecture, 666-2 Nitona cho, Chiba 280, Japan

J LIQ CHROMATOGR 1991, 14 (13) 2551

Simultaneous determination of 5 antibiotics in swine muscle by high-performance liquid chromatography

Li QX, Hammock BD, Seiber JN\*//Univ Calif Davis, Dept Entomol, Davis, CA 95616, USA

J AGR FOOD CHEM 1991, 39 (8) 1537

Development of an enzyme-linked immunosorbent assay for the herbicide bentazone

Verma BC, Sharma DK, Thakur HK, Rao BG, Sharma NK//Himachal Pradesh Univ, Dept Chem, Summer Hill, Simla 171005, India

ANALYST 1991, 116 (8) 867

Colorimetric method for the determination of captan (difolatan) in commercial formulations and residues on grains and apples

Sen NP, Seaman SW, Baddoo PA, Weber D, Malis G//Hlth Protect Branch, Bur Chem Safety, Food Directorate, Div Food Res, Ottawa, Ontario, Canada K1A 0L2

FOOD ADDIT CONTAM 1991, 8 (3) 275

Analytical methods for the determination and mass spectrometric confirmation of 1-methyl-2-nitroso-1,2,3,4-tetrahydro-beta-carboline-3-carboxylic acid and 2-nitroso-1,2,3,4-tetrahydro-beta-carboline-3-carboxylic acid in foods

Mair P, Casida JE\*//Univ Calif Berkeley, Dept Entomol Sci, Pesticide Chem & Toxicol Lab, 114 Wellman Hall, Berkeley, CA 94720, USA

J AGR FOOD CHEM 1991, 39 (8) 1504

Diallate, triallate, and sulfallate herbicides - Identification of thiocarbamate sulfoxides, chloroacroleins, and chloroallythiols as mouse microsomal oxidase and glutathione S-transferase metabolites

Deblas OJ, Depaz JLP, Mendez JH//Univ Salamanca, Dept Analyt Chem Nutr, & Food Sci, E-37008 Salamanca, Spain

TALANTA 1991, 38 (8) 857

Indirect determination of the pesticide dimethoxydithiophosphate in an FIA-AAS system with liquid liquid back-extraction

Ramos F, Filipe M, Castilho C, Silveira I//Univ Coimbra, Fac Farm, Bromatol & Nutr Lab, P-3000 Coimbra, Portugal

J LIQ CHROMATOGR 1991, 14 (11) 2131

Liquid chromatographic determination of dimetridazole and ronidazole in feeds

Tonogai Y, Hasegawa Y, Nakamura Y, Shibata T, Tsuji S, Ito Y, Kato S//Nat'l Inst Hyg Sci, Osaka Branch, 1-1-43 Hoenzaka, Chuo ku, Osaka, Japan

J FOOD HYG SOC JPN 1991, 32 (4) 328

Analysis of disulfoton and trichlorfon in agricultural products by FPD-GC

Ng K, Rice PD, Bobbitt DR\*//Univ Arkansas, Dept Chem & Biochem, Fayetteville, AR 72701, USA

MICROCHEM J 1991, 44 (1) 25

Identification and quantitation of gentamicin in milk using HPLC separation and laser-based polarimetric detection

Puchades R, Lemieux L, Simard RE//Univ Politecn Valencia, Dept Quim, E-46022 Valencia, Spain

J FOOD SCI 1991, 56 (4) 1097

Chemiluminescent assay for glycerol in wine using flow-injection

Vogelgesang J//Kommiss Europaischen Gemeinschaften, DG XII H1, rue Montoyer 75 4-20, B-1040 Brussels, Belgium

DEUT LEBENS-UND NUTZG 1991, 87 (8) 239

Application of a modified quality control chart in the regulatory control of the legal tolerance level for herbicide-residues in drinking water (German, English Abstract)

Prabhu SV, Wehner TA, Tway PC//Merck & Co Inc, Merck Sharp & Dohme Res Labs, Analyt Res Dept, POB 2000, Rahway, NJ 07065, USA

J AGR FOOD CHEM 1991, 39 (8) 1468

Determination of ivermectin levels in swine tissues at the parts per billion level by liquid chromatography with fluorescence detection

Schlaeppli JM, Moser H, Ramsteiner K//Ciba Geigy AG, Pharmaceut Serv, Bldg R-1056 3 19, CH-4002 Basel, Switzerland

J AGR FOOD CHEM 1991, 39 (8) 1533

Determination of metolachlor by competitive enzyme immunoassay using a specific monoclonal antibody

Jan MR, Shah J//Univ Peshawar, Dept Chem, Peshawar, Pakistan

J CHEM SOC PAKISTAN 1991, 13 (1) 41

Investigation of spectrophotometric methods for determination of or-

ganophosphorus insecticides and its application to fruit samples. 2.

Draper WM, Koszcin S//Calif Dept Hlth Serv, Hazardous Mat Lab, Berkeley, Ca 94704, USA

J AGR FOOD CHEM 1991, 39 (8) 1457

Speciation and quantitation of aroclors based on PCB congener data - Application to California mussels and white croaker

Patel BM, Moye HA\*, Weinberger R//Univ Florida, Dept Food Sci & Human Nutr, Pesticide Res Lab, Gainesville, Fl 32611, USA

TALANTA 1991, 38 (8) 913

Postcolumn formation of fluorophores from nitrogenous pesticides by UV photolysis

Scaroni I, Baldi M, Previati MP, Bovolenta A//Presidio Multizonale Prevenz, Sett Chim Ambientale, Unita Sanitaria Locale 31, Corso Giovecca 169, I-44100 Ferrara, Italy

IND ALIMENT 1991, 30 (294) 551

Results of a triannual research for the determination of the antisprout pesticide residues in potatoes (Italian, English Abstract)

Gomyo T, Morishima Y, Yamazaki S, Dairiki H, Ono S//Nippon Soda Co Ltd, Environm Toxicol Lab, Odawara 25002, Japan

ANAL SCI 1991, 7 (4) 579

Analytical method for the total content of residues of triflumizole fungicide and its metabolites in crops by high-performance liquid chromatography

## 9 TOXINS

Gilbert J, Sharman M, Wood GM, Boenke A, Wagstaffe PJ//MAFF, Food Sci Lab, Colney Lane, Norwich NR4 7UQ, England

FOOD ADDIT CONTAM 1991, 8 (3) 305

The preparation, validation and certification of the aflatoxin content of 2 peanut butter reference materials

Hirano K, Adachi Y\*, Hara M, Ishibashi S, Sueyoshi M, Ueno I, Egawa K, Kumazawa NH//Natl Inst Anim Hlth, 3-1-1 Kannondai, Tsukuba, Ibaraki 305, Japan

J VET MED SCI 1991, 53 (4) 767

Detection of aflatoxin-B1 in imported maize kernel used as feed by enzyme-linked immunosorbent assay

Hurst WJ, Martin RA, Vestal CH//Hershey Foods Corp, Ctr Tech, 1025 Reese Ave, POB 805, Hershey, Pa 17033, USA

J LIQ CHROMATOGR 1991, 14 (13) 2541

The use of HPLC thermospray MS for the confirmation of aflatoxins in peanuts

Hines ME, Osuala CI, Nielsen SS\*\*//Purdue Univ, Dept Food Sci, Smith Hall, W Lafayette, In 47907, USA

J AGR FOOD CHEM 1991, 39 (8) 1515

Isolation and partial characterization of a soybean cystatin cysteine proteinase inhibitor of coleopteran digestive proteolytic activity

Lawrence JF, Menard C//Hlth Protect Branch, Food Directorate, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2

J CHROMATOGR 1991, 550 (1-2) 595

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography

Nijjar MS, Grimmelt B, Brown J//Univ Prince Edward Isl, Atlantic Vet Coll, Dept Anat & Physiol, Charlottetown, PEI, Canada C1A 4P3

J CHROMATOGR-BIOMED APPL 1991, 568 (2) 393

Purification of domoic acid from toxic blue mussels (*Mytilus edulis*) and phytoplankton

Agarwal VK//Connecticut Agr Exptl Sta, Box 1106, New Haven, Ct 06504, USA

J LIQ CHROMATOGR 1991, 14 (13) 2601

High-performance liquid chromatographic determination of emetine in corn

Kraatzwadsack G, Ahrens W, von Stuckrad J//Sanitatzsakad Bundeswehr, Inst Mikrobiol, Neuherbergstr 11, W-8000 Munich 45, FRG

INT J FOOD MICROBIOL 1991, 13 (4) 265

ELISA screening of staphylococcal enterotoxins by means of a specially developed test kit

Mosso C, Dalmazzo D, Viretto A//USSL 24, Sez Biol, Sanita Pubbl Lab, Reg Piemonte, via Leonardo da Vinci 44, I-10095 Grugliasco, Italy

IND ALIMENT 1991, 30 (294) 544

Methods for staphylococcal enterotoxin identification in foods (Italian, English Abstract)

Mulimani VH, Vadiraj S//Gulbarga Univ, Dept Biochem, Gulbarga 585106, India

J FOOD SCI TECHNOL-MYSORE 1991, 28 (3) 185

Determination of trypsin and chymotrypsin inhibitory activities in sorghum products

Kimura Y, Minami Y, Tokuda T, Nakajima S, Takagi S, Funatsu G//Okayama Univ, Fac Agr, Dept Agr Sci, Okayama 700, Japan

AGR BIOL CHEM TOKYO 1991, 55 (8) 2031

Primary structures of N-linked oligosaccharides of momordin-A, a ribosome-inactivating protein from *Momordica charantia* seeds

## 10 ADDITIVES

Harada K, Masuda K, Suzuki M\*, Oka H//Meijo Univ, Fac Pharm, Tempa ku, Nagoya, Aichi 468, Japan

BIOL MASS SPECTROM 1991, 20 (9) 522

Separation and identification of food dyes by thin-layer chromatography/liquid secondary ion mass spectrometry

Ciasadonte MT, Ciraolo L//Univ Messina, Dipartimento Sci Merceol, Piazza S Pugliatti, I-98122 Messina, Italy

IND ALIMENT 1991, 30 (294) 540

Identification and determination of EDTA in preserved fishing products (Italian, English Abstract)

Rhodes J, Titherley AC, Norman JA, Wood R, Lord DW//Lancashire Cty Lab, Pedders Way, Preston Riversway Docklands, Preston PR2 2TX, England

FOOD ADDIT CONTAM 1991, 8 (3) 265

A survey of the monosodium glutamate content of foods and an estimation of the dietary intake of monosodium glutamate

Oberdieck R//Qualitatssicherung Raps & Co Gewurzwerke, Adalbert Raps Str 1, W-8650 Kulmbach, FRG

DEUT LEBENS-M-RUNGSCH 1991, 87 (8) 246

Contribution to knowledge and analysis of safran (*Crocus sativus* L.) (German, English Abstract)

Lancaster FE, Lawrence JF//Hlth & Welf Canada, Hlth Protect Branch, Bur Chem Safety, Food Directorate, Div Food Res, Ottawa, Ontario, Canada K1A 0L2

FOOD ADDIT CONTAM 1991, 8 (3) 249

Determination of total non-sulphonated aromatic amines in tartrazine, sunset yellow FCF and allura red by reduction and derivatization followed by high-performance liquid chromatography

## 11 FLAVOURS & AROMAS

Sen A, Schieberle P, Grosch W//Deutsche Forschungsanstalt Lebensmittelchem, Lichtenbergstr 4, W-8046 Garching, FRG  
FOOD SCI TECHNOL-LEBENSMESS WISS 1991, 24 (4) 364

Quantitative determination of 2,5-dimethyl-4-hydroxy-3(2H)-furanone and its methyl ether using a stable isotope dilution assay

Blania G, Spangenberg B\*\*//Rittweg 10, W-7600 Offenburg, FRG  
PLANTA MED 1991, 57 (4) 371

Formation of allicin from dried garlic (*Allium sativum*) - A simple HPTLC method for simultaneous determination of allicin and ajoene in dried garlic and garlic preparations (German, English Abstract)

Lawson LD, Wang ZYJ, Hughes BG//Murdoch Healthcare, Springville, Ut 84663, USA

PLANTA MED 1991, 57 (4) 363

Identification and HPLC quantitation of the sulfides and dialk(en)yl thiosulfates in commercial garlic products

Widmer WW//Florida Dept Citrus, 700 Expt Stn Rd, Lake Alfred, Fl 33850, USA

J AGR FOOD CHEM 1991, 39 (8) 1472

Improvements in the quantitation of limonin in citrus juice by reversed-phase high-performance liquid chromatography

Naf R, Velluz A//Firmenich Co, Res Labs, POB 239, CH-1211 Geneva 8, Switzerland

TETRADHEDRON LETT 1991, 32 (35) 4487

Isolation of acyclic precursors of the marmelo oxides, the marmelo lactones and the quince oxepine from quince fruit (*Cydonia oblonga* Mil)

Sugisawa H, Takeda M, Yang RH, Takagi N//Kagawa Univ, Dept Bioresource Sci, Miki, Kagawa 76107, Japan

J JPN SOC FOOD SCI TECHNOL 1991, 38 (8) 668

The comparison of odor quality of volatiles in peel oils of 5 kinds of navel oranges (Japanese, English Abstract)

Mojar-Roguerra SH, Amado R, Arrigoni E, Solms J//Swiss Fed Inst Technol, Dept Food Sci, CH-8092 Zurich, Switzerland

J FOOD SCI 1991, 56 (4) 943

Isolation of low-molecular-weight taste peptides from Vacherin Mont d'Or cheese

Akiyama S, Nakashima K, Yamada K, Shirakawa N, Sainoh M//Nagasaki Univ, Sch Pharmaceut Sci, Nagasaki 852, Japan

ANAL SCI 1991, 7 (4) 649

High-performance liquid chromatographic determination of 5'-ribonucleotides in seasonings using (3-morpholinopropyl)silylsilica gel column

Thornton HA, Kulandai J, Hawthorne DB, Kavanagh TE//Carlton & United Breweries Ltd, 16 Bouverie St, Carlton, Vic 3053, Australia

J INST BREW 1990, 96 (6) 367

Preparation of a trans-isohumulones standard

Horvat RJ, Chapman GW, Payne JA//USDA ARS, Richard B Russell Agr Res Ctr, Food Qual Evaluat Res Unit, POB 5677, Athens, Ga

30613, USA

J FOOD QUAL 1991, 14 (4) 307

Identification of volatile compounds from ripe mayhaw fruit (*Crataegus opaca*, *C. aestivalis*, and *C. rufula*)

Leino M, Kaitaranta J, Kallio H//Univ Turku, Dept Chem & Biochem,

Lab Food Chem, Finland

FOOD CHEM 1992, 43 (1) 35

Comparison of changes in headspace volatiles of some coffee blends during storage

Van Langenhove HJ, Cornelis CP, Schamp NM//State Univ Ghent, Fac Agr Sci, Organ Chem Lab, Coupure Links 653, B-9000 Ghent, Belgium

J SCI FOOD AGR 1991, 55 (3) 483

Identification of volatiles emitted during the blanching process of brussels sprouts and cauliflower

## 12 ORGANIC ACIDS

Baldo MA, Daniele S\*, Mazzocchini GA, Donati M//Univ Venice, Dept Phys Chem, Calle Larga S Marta 2137, I-30123 Venice, Italy

ANALYST 1991, 116 (9) 933

Amperometric monitoring of bacteria-induced milk acidity using a platinum disc microelectrode

## 13 ANIMAL PRODUCTS

Desrosiers MF//Nat'l Inst Stand & Technol, Ctr Radiat Res, Gaithersburg, Md 20899, USA

J FOOD SCI 1991, 56 (4) 1104

Electron spin resonance of monitoring radiation-processed meats containing bone

Ebbehoj KF, Thomsen PD//Royal Vet & Agr Univ, Dept Anim Sci & Anim Hlth, Div Anim Genet, Bulowsvej 13, DK-1870 Frederiksberg C, Denmark

MEAT SCI 1991, 30 (4) 359

Differentiation of closely related species by DNA hybridization

Miri A, Foucat L, Renou JP, Rodet JP, Rodet L, Talmant A, Monin G, Kozakreiss G, Gascard JP, Berenger G//INRA, Rech Viande Stn, F-63122 Ceyrat, France

MEAT SCI 1991, 30 (4) 327

Use of perfused isolated muscle, as studied by <sup>31</sup>P NMR, to investigate metabolism and post-mortem changes

Swatland HJ, Barbut S//Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

INT J FOOD SCI TECHNOL 1991, 26 (4) 373

Fluorimetry via a quartz-glass rod for predicting the skin content and processing characteristics of poultry meat slurry

Shahidi F, Synowiecki J//Mem Univ Newfoundland, Dept Biochem, St Johns, Newfoundland, Canada A1B 3X9

J AGR FOOD CHEM 1991, 39 (8) 1527

Isolation and characterization of nutrients and value-added products from snow crab (*Chionoecetes opilio*) and shrimp (*Pandalus borealis*) processing discards

Mendenhall IV, Brown RJ//Utah State Univ, Dept Nutr & Food Sci, Western Dairy Foods Res Ctr, Logan, Ut 84322, USA

J DAIRY SCI 1991, 74 (9) 2896

Fourier transform infrared determination of whey powder in nonfat dry milk

Stewart EM, Stevenson MH\*, Gray R//Dept Agr, Div Food & Agr Chem Res, Newforge Lane, Belfast, Antrim, Northern Ireland

J SCI FOOD AGR 1991, 55 (4) 653

Use of ESR spectroscopy for the detection of irradiated whiting (*Merlangius merlangus*)

## 14 PLANT & MICROBIAL PRODUCTS

Yavas I, Rapp A, Rupprecht R//Univ Ankara, Inst Lebensmittelwissenschaften Technol, Ankara, Turkey

DEUT LEBENS- RUNGSCHE 1991, 87 (8) 242

Comparative gas-chromatographical research on Turkish anise seed liquors (Raki) (German, English Abstract)

Prusky D, Kobiler I, Fishman Y, Sims JJ, Midland SL, Keen NT//Agr Res Org, Volcani Ctr, Dept Fruit & Veg Storage, POB 6, IL-50250 Bet Dagan, Israel

J PHYTOPATHOL 1991, 132 (4) 319

Identification of an antifungal compound in unripe avocado fruits and its possible involvement in the quiescent infections of *Colletotrichum gloeosporioides*

Sharpe FR, Chappell CG//Whitbread & Co PLC, Whitbread Tech Ctr, Pk St, Luton LU1 3ET, England

J INST BREW 1990, 96 (6) 381

An introduction of mass spectrometry and its application in the analysis of beer, wine, whisky and food

Van Breemen RB, Canjura FL, Schwartz SJ//N Carolina State Univ, Dept Chem, Box 8204, Raleigh, NC 27695, USA

J AGR FOOD CHEM 1991, 39 (8) 1452

Identification of chlorophyll derivatives by mass spectrometry

Ralph J, Hatfield RD//USDA ARS, Dairy Forage Res Ctr, 1925 Linden Dr W, Madison, WI 53706, USA

J AGR FOOD CHEM 1991, 39 (8) 1426

Pyrolysis-GC-MS characterization of forage materials

Kaneda H, Tsuchiya Y, Kano Y, Kamimura M, Osawa T, Kawakishi S//Sapporo Breweries Ltd, Brewing Res Labs, 10 Okatohme, Yaizu, Shizuoka 425, Japan

J INST BREW 1990, 96 (6) 395

Evaluation of storage stability of hop pellets by chemiluminescence analysis

Forbus WR, Dull CG, Smittle D//USDA ARS, Richard B Russell Agr Res Ctr, POB 5677, Athens, Ga 30613, USA

J FOOD SCI 1991, 56 (4) 981

Measuring netted muskmelon maturity by delayed light emission

Forbus WR, Payne JA, Senter SD//USDA ARS, Richard B Russell Agr Res Ctr, POB 5677, Athens, Ga 30613, USA

J FOOD SCI 1991, 56 (4) 985

Nondestructive evaluation of Japanese persimmon maturity by delayed light emission

Scarinci HE, Umansky G, Demendoza MSC//Univ Nacl Litora, Fac Ingn Quim, Dept Bioingn, Santiago Estero 2829, RA-3000 Santa Fe, Argentina

ARCH LATINOAMER NUTR 1990, 40 (4) 594

Chemical composition study of cellular biomass of yeasts (Spanish, English Abstract)