



Bibliography of analytical food chemistry

1 BOOKS, REVIEWS & SYMPOSIA

J Dairy Sci 1992 75 (11) 3191

Special section: Borden Symposium - Effect of new milk protein determination technologies on the dairy industry - Crude versus true protein (12 papers)

Zuckerindustrie 1992 117 (11) 918

Workshop on analysis of sugars in food (German, English Abstract)

Chen CS// Univ Florida, Ctr Agr Res & Educ, Inst Food & Agr Sci, Ctr Citrus Res & Educ, 700 Expt Stn Rd, Lake Alfred, FL 33850, USA

Food Sci Technol-Lebensm Wiss 1992 25 (5) 399

Brix-acid ratio as an indicator for flavor quality in grapefruit and processed juice - A review for juice blending (Review)

Cornelis R// Inst Nucl Sci, Analyt Chem Lab, Proeftuinstr 86, B-9000 Ghent, Belgium

J Trace Elem Electr Hlth Dis 1992 6 (3) 129

Quality control in trace element analysis of clinical and biological samples - How good are your data? (Review)

Filova V, Valentova O, Daussant J, Kas J// Inst Chem Technol, Dept Biochem & Microbiol, CS-16628 Prague 6, Czechoslovakia

Food Rev Int 1992 8 (4) 559

Some methods for isolation and assays of enzymes occurring in cereals and legumes (Review)

Morales MT, Aparicio R, Gutierrez F// Inst Grasa & Sus Derivados, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain

Grasas Aceites 1992 43 (3) 164

Techniques for the isolation and concentration of vegetable oils volatiles (Review) (Spanish, English Abstract)

2 GENERAL

Amado R, Escher F// Swiss Fed Inst Technol, Inst Lebensmittelchem, CH-8092 Zurich, Switzerland

Chimia 1992 46 (10) 397

Food chemistry - Chemistry for assurance of food quality (Editorial) (German, English Abstract)

Auffray A// Agroalimentaire, Labs SGS Qualitest, 16 rue du Louvre, BP 275, F-75024 Paris 01, France

Analisis 1992 20 (9) M14

Good laboratory practices and accreditation (French, English Abstract)

Bell LN, Labuza TP// Univ Minnesota, Dept Food Sci & Nutr, St Paul, MN 55108, USA

J Food Process Preserv 1992 16 (4) 289

Evaluation and comparison of simple methods for pH measurement of reduced-moisture solid systems

Emde H// Landkreis Osnabruck, Abt Vet & Lebensmittel, Am Scholerberg 1, W-4500 Osnabruck, FRG

Arch Lebensm-Hyg 1992 43 (2) 45

New aspects in food control or quality by food industry and food surveillance (German, English Abstract)

Ishida N, Kano H, Ogawa H// Natl Food Res Inst, 2-1-2 Kannondai, Tsukuba, Ibaraki 305, Japan

Bunseki Kagaku 1992 41 (11) 561

¹H-NMR image and the localized spectra of foods (Japanese, English Abstract)

Kimura S, Eto M// Himeji Coll Hyogo, Food Chem Lab, 1-1-12 Shinzaike

Honcho, Himeji, Hyogo 670, Japan

J Jpn Soc Food Sci Technol 1992 39 (11) 1016

Convenient methods for determination of 5'-ribonucleotides and their related compounds using separation by paper electrophoresis and correction on UV-absorption of filter paper itself (Japanese, English Abstract)

Lauwaars M// AOAC Int, POB 153, 6720 AD Bennekom, The Netherlands

Analisis 1992 20 (9) M21

Development methodology for a new method of food control

Mannino S, Wang J// Univ Milan, Dipt Sci Technol Alimentari & Microbiol, Via Celoria 2, I-20122 Milan, Italy

Electroanal 1992 4 (9) 835

Electrochemical methods for food and drink analysis

Petersen B, Barraj L, Tomerlin JR// Tech Assessment Syst, Flour Mill, 1000 Potomac St NW, Washington, DC 20007, USA

Analisis 1992 20 (9) M24

Technical assessment of food products

Ranhotra GS, Gelroth JA, Glaser BK// Amer Inst Baking, 1213 Bakers Way, Manhattan, Ks 66502, USA

Cereal Food World 1992 37 (11) 824

Proximate analysis of fat-modified and calorie-modified bakery products

Schrader GW, Litchfield JB, Schmidt SJ// Univ Illinois, Dept Agr Engr, 360 AESB, 1304 W Penns Ave, Urbana, IL 61801, USA

Food Technol 1992 46 (12) 77

Magnetic resonance imaging applications in the food industry -

Soroste A// ENSIA, 191 rue de Vaugirard, F-75015 Paris, France

Analisis 1992 20 (9) M29

Analytical methods of food legislation (French, English Abstract)

3 AMINO ACIDS, PROTEINS & ENZYMES

Assoumani MB, Vedeau F, Jacquot L, Sniffen CJ// Sanders 17, Quai Ind, F-91200 Athis Mons, France

Anim Feed Sci Tech 1992 39 (3-4) 357

Refinement of an enzymatic method for estimating the theoretical degradability of proteins in feedstuffs for ruminants

Black JA, Waggamon KA// Isolab Inc, Drawer 4350, Akron, Oh 44321, USA

Electrophoresis 1992 13 (9-10) 800

Wheat gliadin - Digital imaging and database construction using a 4-band reference system of agarose isoelectric focusing patterns

Branlard G, Khelifi D, Lockhart G// INRA, Ameliorat Plantes Stn, F-63039 Clermont Ferrand, France

Cereal Chem 1992 69 (6) 677

Identification of some wheat proteins separated by a 2-step acid polyacrylamide gel electrophoresis and sodium dodecyl sulfate-polyacrylamide gel electrophoresis technique

Carisano A// Star Spa, Direz Sci, Via Matteotti 142, I-20041 Agrate Brianza, Italy

Ind Aliment 1992 31 (308) 891

Quick protein digestion in food matrixes with a microwave furnace. 1. Amino acids determination except tryptophan, cystine and methionine (Italian, English Abstract)

Celano GV, Cafarchia C, Buja F, Tiecco G// Univ Valenzano, Fac Med Vet, Ist Ispez Alimentari, Casella Postale 7, I-70010 Valenzano, Italy

Ind Aliment 1992 31 (307) 764

Biogenic amines determination in cheese (Italian, English Abstract)

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 author. Where there are no papers to appear under a heading, it will be omitted.

- Cubadda R, Carcea M, Pasqui LA// Molise Univ, Dept Food Sci & Microbiol, I-86100 Campobasso, Italy
Cereal Food World 1992 37 (12) 866
Suitability of the gluten index method for assessing gluten strength in durum wheat and semolina
- Garcia SE, Baxter JH// Ross Labs, 625 Cleveland Ave, Columbus, Oh 43215, USA
JAOAC Int 1992 75 (6) 1112
Determination of tryptophan content in infant formulas and medical nutritionals
- Genot C, Tonetti F, Montenay-Garestier T, Marion D, Drapron R// INRA, Etude Interact Molec Alimentaires Lab, BP 527, F-44026 Nantes 03, France
Sci Aliment 1992 12 (4) 687
Front-face fluorescence applied to structural studies of proteins and lipid-protein interactions of visco-elastic food products. 2. Application to wheat gluten
- Gorg A, Postel W, Weiss W// Tech Univ Munich, Lehrstuhl Allgemeine Lebensmitteltechnol, W-8050 Freising, FRG
Electrophoresis 1992 13 (9-10) 759
Detection of polypeptides and amylase isoenzyme modifications related to malting quality during malting process of barley by 2-dimensional electrophoresis and isoelectric focusing with immobilized pH gradients
- Guerin C, Brule G// INRA, Technol Laitiere Lab, 65 rue St Briec, F-35042 Rennes, France
Sci Aliment 1992 12 (4) 705
Separation of 3 proteins from egg white (French, English Abstract)
- Heckmann T, Neumann B, Tschirdewahn B, Bentler W// Staatl Vet Untersuchungsamt, Berliner Allee 1, W-4930 Detmold, FRG
Fleischwirtschaft 1992 72 (10) 1426
Soya protein - Determination in dry sausage and frankfurter-type sausage
- Henriksen A, Petersen JFW, Svensson A, Hejgaard J, Welinder KG, Gajhede M// Univ Copenhagen, HC Orsted Inst, Chem Lab 4, Univ Pk 5, DK-2100 Copenhagen, Denmark
J Mol Biol 1992 228 (2) 690
Crystallization and preliminary X-ray diffraction studies of a peroxidase from barley grain
- Hubik K// Vyzkumny Ustav Oblinarsky, CS-76741 Kromeriz, Czechoslovakia
Rostl Vyroba 1992 38 (9-10) 765
Electrophoresis of gliadin fraction of reserve protein of wheat grain in polyacrylamide gel (Czech, English Abstract)
- Iwatsubo T, Nakagawa H, Ogura N, Hirabayashi T, Sato T*// *Chiba Univ, Fac Hort, Div Bioprod Sci, 648 Matsudo, Chiba 271, Japan
Plant Cell Physiol 1992 33 (8) 1127
Acid invertase of melon fruits - Immunochemical detection of acid invertases
- Janes PW, Skerritt JH// CSIRO, Div Plant Ind, Grain Qual Res Lab, POB 7, Nth Ryde, NSW 2113, Australia
J Inst Brew 1993 99 (1) 77
High-performance liquid chromatography of barley proteins - Relative quantities of hordein fractions correlate with malt extract
- Kawakami H, Kawasaki Y, Dosako S, Tanimoto M, Nakajima I// Snow Brand Milk Prod Co Ltd, Tech Res Inst, 1-2 Minamidai 1-chome, Kawagoe, Saitama 350, Japan
Milchwissenschaft 1992 47 (11) 688
Determination of kappa-casein glycomacropptide by high-performance liquid chromatography without trichloroacetic acid pretreatment
- Khan K, Huckle L// Nth Dakota State Univ, Dept Cereal Sci & Food Technol, Fargo, ND 58105, USA
Cereal Chem 1992 69 (6) 686
Use of multistacking gels in sodium dodecyl sulfate-polyacrylamide gel electrophoresis to reveal polydispersity, aggregation, and disaggregation of the glutenin protein fraction
- Kikuchi S, Inohara M, Okamura I, Oshima Y, Takeuchi T, Miura T, Tatewaki M// Muroan Inst Technol, Dept Appl Chem, Muroan, Hokkaido 050, Japan
Biosci Biotechnol Biochem 1992 56 (9) 1434
Purification and characterization of a metallothionein-like zinc-binding protein of scallops, *Patinopecten yessoensis*
- Kraner P, Schopf E// Inst Fleischhyg Fleischtechnol & Lebensmittelkunde, Linke Bahngasse 11, A-1030 Vienna, Austria
Arch Lebensm 1992 43 (3) 63
A method for the detection of histamine forming microorganisms in raw sausage (German, English Abstract)
- Lambelet P, Berrocal R, Renevey F// Nestec Ltd, Nestle Res Ctr, Vers Chez Les Blanc, CH-1000 Lausanne 26, Switzerland
J Dairy Res 1992 59 (4) 517
Low-field nuclear magnetic resonance relaxation study of thermal effects on milk proteins
- Leaver J, Law AJR// Hannah Res Inst, Ayr KA6 5HL, Scotland
J Dairy Res 1992 59 (4) 557
Preparative-scale purification of bovine caseins on a cation-exchange resin
- Lourenco EJ, Neves VA, Da Silva MA// UNESP, FCF, Dept Food & Nutr, Rodovia Araraquara Jau Km 1, Caixa Postal 502, BR-14800 Araraquara, Brazil
J Agr Food Chem 1992 40 (12) 2369
Polyphenol oxidase from sweet potato - Purification and properties
- Magnus EM, Khan K// Nth Dakota State Univ, Dept Cereal Sci & Food Technol, Fargo, ND 58105, USA
Cereal Chem 1992 69 (6) 607
Hydrophobic properties of reduced and alkylated acetic acid-soluble glutenins fractionation by hydrophobic-interaction chromatography
- Mayer W, Hortner H*// *Bundesanstalt Lebensmitteluntersuch & Forsch, Kinderspitalgasse 15, A-1090 Vienna, Austria
Electrophoresis 1992 13 (9-10) 803
Discontinuous electrophoresis of beta-caseins for the determination of bovine caseins in milk and dairy products
- Mohr KH, Simon S// Martin Luther Univ, Inst Biotechnol, Weinbergweg 16A, O-4050 Halle, FRG
Nahrung 1992 36 (6) 530
Kinetic investigations of the denaturation of egg yolk proteins by rheological measurements
- Palleschi G, Lavagnini MG, Compagnone D, Bertocchi P, Moscone D// Univ Roma Tor Vergata, Dipt Sci & Tecnol Chim, Via O Raimondo, I-00173 Rome, Italy
Electroanal 1992 4 (9) 851
Flow monitoring of glutamate and aspartate in foods and pharmaceutical products with immobilized bienzyme electrochemical cells
- Posch A, Van den Berg BM, Postel W, Gorg A*// *Tech Univ Munich, Lehrstuhl Allgemeine Lebensmitteltechnol, W-8050 Freising, FRG
Electrophoresis 1992 13 (9-10) 774
Genetic variability of pepper (*Capsicum annum* L) seed proteins studied by 2-electrophoresis with immobilized pH gradients
- Pressi G, Curioni A, Peruffo ADB, Zamorani A// Univ Padua, Dipt Biotechnol Agr, Via Gradenigo 6, I-35131 Padua, Italy
J Inst Brew 1993 99 (1) 63
Effectiveness of the electroendosmotic preparative electrophoresis for the purification of all proteins and polypeptides from beer
- Rehbein H// Bundesforschungsanstalt Fischerei, Inst Biochem & Technol, Palmaille 9, W-2000 Hamburg 50, FRG
Electrophoresis 1992 13 (9-10) 805
Fish species identification by peptide mapping of the myosin heavy chain
- Schwarz M// Vysoka Skola Polnohospodarska, CS-94976 Nitra, Czechoslovakia
Rostl Vyroba 1992 38 (9-10) 739
Analysis of gliadins by high-performance liquid chromatography on different supports (Czech, English Abstract)
- Shah BB, Singh RK*// *Purdue Univ, Dept Food Sci, W Lafayette, In 47907, USA
J Food Process Preserv 1992 16 (4) 275
Separation of egg yolk proteins and lipids with carboxymethyl cellulose
- Shibata T, Tsuji S, Kobayashi K, Asai Y, Honda T, Noda K, Iwaida M, Mochizuki E, Sugahara O, Ito Y// Natl Inst Hyg Sci, 1-1-43 Hoenzaka, Chuo ku, Osaka 540, Japan
Jpn J Toxicol Environ Health 1992 38 (5) 437
Determination of lysozyme in various foodstuffs by high-performance liquid chromatography with fluorescence detector (Japanese, English Abstract)
- Strong FC, Duarte AMA// Bucknell Univ, Dept Chem, Lewisburg, Pa 17837, USA

- Cereal Chem* 1992 **69** (6) 659
A room-temperature, rapid method for the determination of protein in wheat and other grains by the Biuret reaction
- Taureilles C, Robin JP, Flanzly C// INRA, Inst Prod Vigne, Biochim Metab & Technol Lab, 2 Pl Viala, F-34060 Montpellier, France
Sci Aliment 1992 **12** (4) 649
Grape (*Vitis vinifera* L) malate dehydrogenase - Partial purification and isoelectric heterogeneity
- Watanabe M, Suzuki T, Ikezawa Z// Tokyo Gakugei Univ, Fac Educ, Food Sci Lab, Koganei, Tokyo 184, Japan
Biosci Biotechnol Biochem 1992 **56** (11) 1886
Development and quality evaluation of hypoallergenic bakery products suitable for patients with wheat-associated allergy
- Watsuji T, Chachin K, Miyazaki M// Koshien Junior Coll, Kawarabayashi cho, Nishinomiya, Hyogo 663, Japan
J Jpn Soc Food Sci Technol 1992 **39** (11) 966
Electrophoretic patterns of kiwifruit soluble proteins and protease activity (Japanese, English Abstract)
- Weiss W, Postel W, Gorg A** *Tech Univ Munich, Lehrstuhl Allgemeine Lebensmitteltechnol, W8050 Freising, FRG
Electrophoresis 1992 **13** (9-10) 770
Application of sequential extraction procedures and glycoprotein blotting for the characterization of the 2-D-polypeptide patterns of barley seed proteins
- Weiss W, Postel W, Gorg A** *Tech Univ Munich, Lehrstuhl Allgemeine Lebensmitteltechnol, W8050 Freising, FRG
Electrophoresis 1992 **13** (9-10) 787
Qualitative and quantitative changes in barley seed protein patterns during the malting process analyzed by sodium dodecyl sulfate-polyacrylamide gel electrophoresis with respect to malting quality
- Wieczorek P, Sumujto D, Chlubek D, Machoy Z// Pomeranian Med Acad, Dept Biochem, Al Powstancow 72, Szczecin, Poland
Fluoride 1992 **25** (4) 171
Interaction of fluoride ions with milk proteins studied by gel filtration
- Yaylayan VA, Huyghues-Despointes A, Polydorides A// McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus 22, 111 Lakeshore Rd, St Anne Bellevue, Quebec, Canada H9X 1C0
Food Res Int 1992 **25** (4) 269
A fluorescamine-based assay for the degree of glycation in bovine serum albumin
- #### 4 CARBOHYDRATES
- Carlsson NG, Karlsson H, Sandberg AS** *Chalmers Univ Technol, Dept Food Sci, SIK, Box 5401, S-40229 Gothenburg, Sweden
J Agr Food Chem 1992 **40** (12) 2404
Determination of oligosaccharides in foods, diets, and intestinal contents by high-temperature gas chromatography and gas chromatography-mass spectrometry
- Ciesla K, Zoltowski T, Mogilevski LY// Inst Nucl Chem & Technol, Dorodna 16, PL-03195 Warsaw, Poland
Starch 1992 **44** (11) 419
SAXA investigations of structural changes after gamma-ray irradiation of potato starch and starch suspensions
- Conner JM, Paterson A, Piggott JR// Univ Strathclyde, Dept Biosci & Biotechnol, Food Sci Labs, 131 Albion St, Glasgow G1 1SD, Scotland
J Sci Food Agr 1992 **60** (3) 349
Analysis of lignin from oak casks used for the maturation of Scotch whisky
- Contreras NI, Fairley P*, McClements DJ, Povey MJW// *Univ Leeds, Dept Food Sci, Leeds LS2 9JT, England
Int J Food Sci Technol 1992 **27** (5) 515
Analysis of the sugar content of fruit and drinks using ultrasonic velocity measurements
- Crees O// Address not available.
Int Sugar J 1992 **94** (1126) 247
Analytical methods for cane sugar processing (ICUMSA News)
- Doner LW, Brause AR, Petrus DR// USDA ARS, Eastern Reg Res Ctr, 600 E Mermaid Lane, Philadelphia, Pa 19118, USA
J AOAC Int 1992 **75** (6) 1107
- Delta ¹⁸O measurements in water for detection of sugar beet-derived syrups in frozen concentrated orange juice - Collaborative study
- Fujita S, Iida T, Fujiyama G// Tsu City Coll, Dept Food & Nutr, Ishinden 157, Tsu, Mie 51401, Japan
Starch 1992 **44** (12) 456
Relationship between gelatinizing temperature and enthalpy of starch from gramineous crops by differential scanning calorimetry
- Hermansson K, Jansson PE*, Kenne L, Widmalm G, Lindh F// *Univ Stockholm, Arrhenius Lab, Dept Organ Chem, S-10691 Stockholm, Sweden
Carbohydr Res 1992 **235** 69
A ¹H and ¹³C NMR study of oligosaccharides from human milk - Application of the computer program CASPER
- Hildebrand U, Cech F, Rupp D, Sommermeyer K// Fresenius Ag, Chem Pharmazeut Forsch & Entwicklung, Postfach 1809, W-6370 Oberursel, FRG
Starch 1992 **44** (11) 426
Systematic GC/MS analysis of 1,2-O-ethylene glucose derivatives in hydrolysates of hydroxyethyl starch (German, English Abstract)
- Karkalas J, Tester RF, Morrison WR// Univ Strathclyde, Dept Biosci & Biotechnol Food Sci, 131 Albion St, Glasgow G1 1SD, Scotland
J Cereal Sci 1992 **16** (3) 237
Properties of damaged starch granules. 1. Comparison of a micromethod for the enzymic determination of damaged starch with the standard AACCC and Ferrand methods
- Klinger RW, Zimbalski M// TFH Berlin, Kurfurstenstr 141, W-1000 Berlin 30, FRG
Starch 1992 **44** (11) 414
Molecular characterization of amyloses of different origins (German, English Abstract)
- Lehrfeld J, Morris ER// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 N Univ St, Peoria, IL 61604, USA
J Agr Food Chem 1992 **40** (11) 2208
Overestimation of phytic acid in foods by the AOAC anion-exchange method
- Morgan KR, Furneaux RH, Stanley RA// Ind Res Ltd, POB 31-310, Lower Hutt, New Zealand
Carbohydr Res 1992 **235** 15
Observation by solid-state ¹³C CP MAS NMR spectroscopy of the transformations of wheat starch associated with the making and staling of bread
- Mulder MM, Engels FM, Schuurmans JLL, Boon JJ// FOM, Inst Atom & Molec Phys, Mass Spectrometry Macromolec Syst Unit, Kruislaan 407, 1098 SJ Amsterdam, The Netherlands
Anim Feed Sci Tech 1992 **39** (3-4) 335
In vitro digested and potassium permanganate delignified maize internode sections studied by histochemistry and analytical pyrolysis mass spectrometry
- Sherma J, Norfolk E// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA
J Liq Chromatogr 1992 **15** (17) 2981
Quantitative TLC determination of stevioside and rebaudioside-A in beverages
- Shull JM, Watterson JJ, Kirleis AW** *Purdue Univ, Dept Food Sci, W Lafayette, In 47907, USA
Protoplasma 1992 **171** (1-2) 64
Purification and immunocytochemical localization of kafirins in *Sorghum bicolor* (L Moench) endosperm
- Soni PL, Singh A// Forest Res Inst, MFP Div, Chem Forest Prod, Dehra Dun 248006, India
Indian J Chem Sect B 1992 **31** (11) 793
Structural characterisations of a glucan from the fruits of *Cassimiroa edulis*
- Troyano E, Olano A, Jimeno ML, Sanz J, Martinez-Castro I// Inst Fermentaciones Ind, Juan Cierva 3, E-28006 Madrid, Spain
J Dairy Res 1992 **59** (4) 507
Isolation and characterization of 3-deoxyxypentulose and its determination in heated milk
- White JW// Honeydata Corp, Navasota, Tx 77868, USA
Amer Bee J 1992 **132** (11) 737
Quality evaluation of honey - Role of HMF and diastase assays. 1.

White JW// Honeydata Corp, Navasota, Tx 77868, USA

Amer Bee J 1992 **132** (12) 792

Quality evaluation of honey - Role of HMF and diastase assays. 2.

5 LIPIDS

Abraham MH, Whiting GS// Univ London Univ Coll, Dept Chem, 20 Gordon St, London WC1H 0AJ, England

J Amer Oil Chem Soc 1992 **69** (12) 1236

Hydrogen-bonding. 22. Characterization of soybean oil and prediction of activity coefficients in soybean oil from inverse gas chromatographic data

Bajaj VK, Rai T// Natl Dairy Res Inst, Div Dairy Chem, Karnal 132001, Haryana, India

Indian J Anim Sci 1992 **62** (11) 1096

Comparative efficiency of various analytical methods for fat and total solids determined gravimetrically in formalin preserved milk samples

Bello AC// US FDA, US Customhouse, Rm 900, Philadelphia, Pa 19106, USA

J AOAC Int 1992 **75** (6) 1120

Rapid isolation of the sterol fraction in edible oils using a silica cartridge

Biedermann M, Grob K*, Frohlich D, Meier W// *Kantonales Lab, POB, CH-8030 Zurich, Switzerland

Z Lebensmittel-Untersuch Fors 1992 **195** (5) 409

On-line coupled liquid chromatography-gas chromatography (LC-GC) and LC-LC-GC for detecting irradiation of fat-containing foods

Croon LB, Wallin HC// *Swedish Natl Food Adm, POB 622, S-75126 Uppsala, Sweden

J AOAC Int 1992 **75** (6) 1011

Determination of total fat in meat and meat products by solvent extraction after hydrochloric acid hydrolysis - NMKL interlaboratory study

Diers BW, Shoemaker RC// Michigan State Univ, Dept Crop & Soil Sci, Plant & Soil Sci Bldg, E Lansing, Mi 48824, USA

J Amer Oil Chem Soc 1992 **69** (12) 1242

Restriction fragment length polymorphism analysis of soybean fatty acid content

Dotson KD, Jerrell JP, Picciano MF, Perkins EG*// *Univ Illinois, Dept Food Sci, Burnsides Res Lab, 1208 Penn Ave, Urbana, Il 61801, USA

Lipids 1992 **27** (11) 933

High-performance liquid chromatography of human milk triacylglycerols and gas chromatography of component fatty acids

Eads TM, Blaurock AE, Bryant RG, Roy DJ, Croadmun WR// Purdue Univ, Dept Food Sci, Smith Hall, W Lafayette, In 47907, USA

J Amer Oil Chem Soc 1992 **69** (11) 1057

Molecular motion and transitions in solid tripalmitin measured by deuterium nuclear magnetic resonance

Ferreiro L, Aparicio R// CSIC, Inst Grasa & Derivados, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain

Grasas Aceites 1992 **43** (3) 149

Influence of altitude on chemical composition of Andalusian virgin olive oil - Mathematical classification equations (Spanish, English Abstract)

Grob K, Artho A, Mariani C// Kantonales Lab Zurich, CH-8030 Zurich, Switzerland

Fett Wiss Technol 1992 **94** (10) 394

Determination of raffination of edible oils and fats by olefinic degradation products of sterols and squalene, using coupled LC-GC

Hartman L, Jablonka FH// Natl Ctr Food Technol Res, CTA, EM-BRAPA, BR-23020 Rio de Janeiro, Brazil

J Amer Oil Chem Soc 1992 **69** (12) 1276

A modified moisture and volatile matter determination in fats and oils (Letter)

Lee MH, Cavinato AG, Mayes DM, Rasco BA*// *Univ Washington, Inst Food Sci & Technol, HF-10, Seattle, Wa 98195, USA

J Agr Food Chem 1992 **40** (11) 2176

Noninvasive short-wavelength near-infrared spectroscopic method to estimate the crude lipid content in the muscle of intact rainbow trout

Medina I, Aubourg S*, Gallardo JM, Perez-Martin R// *CSIC, Inst Invest Marinas, C Eduardo Cabello 6, E-36208 Vigo, Spain

Int J Food Sci Technol 1992 **27** (5) 597

Comparison of 6 methylation methods for analysis of the fatty acid composition of albacore lipid

Proto M// Univ Fisciano, Fac Econ & Commercio, Cattedra Merceol, I-84084 Fisciano, Italy

Ind Aliment 1992 **31** (307) 769

The importance of the determination of trans-isomers fatty acids in olive oils and sunflower seed oils

Raharjo S, Sofos JN*, Schmidt GR// *Colorado State Univ, Dept Anim Sci, Ft Collins, Co 80523, USA

J Agr Food Chem 1992 **40** (11) 2182

Improved speed, specificity, and limit of determination of an aqueous acid extraction thiobarbituric acid-C18 method for measuring lipid peroxidation in beef

Rauen-Miguel AMO, Esteves W, Barrera-Arellano D// Inst Tecnol Alimentos, Avda Brasil 2880, BR-13073 Campinas, SP, Brazil

Grasas Aceites 1992 **43** (3) 119

Determination of the induction period of soybean oil - Correlation between the Rancimat and various analytical tests (Spanish, English Abstract)

Stancher B, Procida G, Calabrese M// Univ Trieste, Dipt Econ & Merceol Risorse Nat Food, Via A Valerio 6, I-34127 Trieste, Italy

Ind Aliment 1992 **31** (307) 744

Characterization of the most common cultivated mushrooms in Italy. 4. The lipidic fraction - Determination of the free and linked fatty acids content (Italian, English Abstract)

Tasioulamargari M, Demetropoulos IN*// *Univ Ioannina, Dept Chem, Ioannina, Greece

J Amer Oil Chem Soc 1992 **69** (11) 1112

Viscosity-structure relationship of dilute triglycerides solutions - Correlation to retention time in reversed-phase liquid chromatography

Ukeda H, Wagner G, Bilitewski U, Schmid RD*// *Gesell Biotechnol Forsch GmbH, Dept Enzymtechnol, Mascheroder Weg 1, W-3300 Braunschweig, FRG

J Agr Food Chem 1992 **40** (11) 2324

Flow injection analysis of short-chain fatty acids in milk based on a microbial electrode

Van der Pauw CG, Rietveld AMJ, Maarse H, Griepink B, Maier EA// TNO, Inst Biotechnol & Chem, POB 360, 3700 AJ Zeist, The Netherlands

Fresenius J Anal Chem 1992 **344** (7-8) 297

Development of pork fat reference material OCPs BCR-CRM 430. 1. Preparation, homogeneity and stability

Van de Voort FR, Sedman J, Emo G, Ismail AA// McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, 21111 Lakeshore Rd, St Anne Bellevue, Quebec, Canada H9X 1C0

J Amer Oil Chem Soc 1992 **69** (11) 1118

Rapid and direct iodine value and saponification number determination of fats and oils by attenuated total reflectance Fourier transform infrared spectroscopy

Wesen C, Mu HL, Kvernheim AL, Larsson P// Chem Ctr Lund, Dept Tech Analyt Chem, POB 124, S-22100 Lund, Sweden

J Chromatogr 1992 **625** (2) 257

Identification of chlorinated fatty acids in fish lipids by partitioning studies and by gas chromatography with Hall electrolytic conductivity detection

Wolff RL, Van Damme FF// Univ Bordeaux 1, ISTAB, Lipochim Alimentaire Lab, Allee Fac, F-33405 Talence, France

J Amer Oil Chem Soc 1992 **69** (12) 1228

Separation of petroselinic (cis-6 18/1) and oleic (cis-9 18/1) acids by gas-liquid chromatography of their isopropyl esters

6 VITAMINS & CO-FACTORS

Iwase H// Ajinomoto Co Inc, Kawasaki Factory, 1-1 Suzuki cho, Kawasaki ku, Kawasaki, Kanagawa 210, Japan

J Chromatogr 1992 **625** (2) 377

Determination of nicotinamide and pyridoxine in an elemental diet by column-switching high-performance liquid chromatography with UV detection

Murcia MA, Vera A, Garcia-Carmona F// Univ Murcia, Fac Vet, Dept Food Sci, Campus Espinardo, Apdo Correos 4021, E-30080 Murcia, Spain

J Sci Food Agr 1992 **60** (1) 81

Determination by HPLC of changes in tocopherol levels in spinach after industrial processing

Rodriguez MAR, Oderiz MLV, Hernandez JL, Lozano JS// Fac Farm Santiago de Compostela, Dept Quim Analit Nutr & Bromatol, E-15706 Santiago de Compostela, Spain
J Chromatogr Sci 1992 30 (11) 433
 Determination of vitamin-C and organic acids in various fruits by HPLC

7 TRACE ELEMENTS & MINERALS

Bagur G, Gazquez D*, Sanchez M, Martin AM// *Univ Granada, Fac Sci, Dept Analyt Chem, E-18071 Granada, Spain
Anal Lett 1993 26 (1) 125
 Synergistic extraction atomic spectrophotometric determination of vanadium in foods and petroleum crudes with 5,5'-methylenebisalicylohydroxamic acid (MEDSHA)

Ballin U, Kruse R, Russelsinn HA// Staat Vet Untersuch Fische & Fischwar Cuxh, Schleusenstr, W-2190 Cuxhaven, FRG
Arch Lebensm-Hyg 1992 43 (1) 19
 Determination of total arsenic and arsenobetain in fish, crustaceans and molluscs (German, English Abstract)

Chmilenko FA, Baklanov AN// Dnepropetrovsk State Univ, Dept Analyt Chem, Dnepropetrovsk, Ukraine
Izv Vyssh Uch Zav Khim Khim Tek 1992 35 (8) 95
 Fast determination of microelements in food common salt (Russian)

Chung SW, Tsai WC*// *Food Inst Res & Dev Inst, Div Food Technol, POB 246, Hsinchu 30099, Taiwan
At Spectrosc 1992 13 (5) 185
 Atomic absorption spectrometric determination of heavy metals in food-stuffs using a simple digester

Dabeka RW, Conacher HBS, Salminen J, Nixon GR, Riedel G, Crocker R, Dube G// Hlth & Welf Canada, Div Food Res, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Ottawa, Ontario, Canada K1A 0L2
J AOAC Int 1992 75 (6) 949
 Survey of bottled drinking water sold in Canada. 1. Lead, cadmium, arsenic, aluminium, and fluoride

Dabeka RW, McKenzie AD// Hlth & Welf Canada, Div Food Res, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Ottawa, Ontario, Canada K1A 0L2
J AOAC Int 1992 75 (6) 954
 Graphite furnace atomic absorption spectrometric determination and survey of total aluminium, copper, manganese, molybdenum, and tin in infant formulas and evaporated milks

Horie H, Nagata T, Mukai T, Goto T// Natl Res Inst Vegetables Ornamental Plants & Tea, Kanaya, Shizuoka 428, Japan
Biosci Biotechnol Biochem 1992 56 (9) 1474
 Determination of the chemical form of fluorine in tea infusions by ¹⁹F-NMR

Kolar K// Swedish Meat Res Inst, Analyt Serv, POB 504, S-24424 Kavlinge, Sweden
J AOAC Int 1992 75 (6) 1016
 Gravimetric determination of moisture and ash in meat and meat products - NMKL interlaboratory study

Kreis IA, Wijga A, Van Wijnen JH// Natl Inst Publ Hlth & Environm Protect, Dept Epidemiol, 3720 BA Bilthoven, The Netherlands
Sci Total Envir 1992 127 (3) 281
 Assessment of the lifetime accumulated cadmium intake from food in Kempenland

Landi S, Fagioli F, Locatelli C// Univ Ferrara, Dipt Chim, Via L Borsari 46, I-44100 Ferrara, Italy
J AOAC Int 1992 75 (6) 1023
 Determination of total mercury in seafood and other protein-rich products

Lavi N, Neeman E, Nirel Y// Soreq Nucl Res Ctr, IL-70600 Yavne, Israel
J Radioanal Nucl Chem Art 1992 163 (2) 307
 Neutron activation analysis for environmental trace element research - Determination of aluminium in drinking water

Michalke B, Munch DC, Schramel P// GSF Forsch Umwelt & Gesund GmbH, Inst Okol Chem, Ingolstadter Landstr 1, W-8042 Neuherberg, FRG
Fresenius J Anal Chem 1992 344 (7-8) 306
 Advanced quality control for zinc speciation investigations in human breast milk

Navarro M, Lopez MC, Lopez H, Sanchez M// Univ Granada, Fac Pharm, Dept Nutr & Bromatol, E-18012 Granada, Spain
J AOAC Int 1992 75 (6) 1029
 Determination of arsenic in vegetable samples by hydride generation atomic absorption spectrometry

Owen LMW, Crews HM, Massey RC// MRC, Dunn Nutr Unit, Milton Rd, Cambridge CB4 1XJ, England
Chem Speciation Bioavailab 1992 4 (3) 89
 Aluminium in tea - SEC-ICP-MS speciation studies of infusions and simulated gastrointestinal digests

Quevauviller P, Kramer GN, Griepink B// Commiss European Communities, Bur Community Reference, rue Loi 200, B-1049 Brussels, Belgium
Mar Pollut Bull 1992 24 (12) 601
 A new certified reference material for the quality control of trace elements in marine monitoring - Cod muscle (CRM 422)

8 DRUG, BIOCIDES & CHEMICAL RESIDUES

Bauer KM, Cramer PH, Stanley JS, Fredette C, Giglino TL// Midwest Res Inst, 425 Volker Blvd, Kansas City, Mo 64110, USA
Chemosphere 1992 25 (7-10) 1441
 Multivariate statistical analyses of PCDD and PCDF level in fish, sediment, and soil samples collected near resource recovery facilities

Cox SK, Van Manen RT, Oliver JW// Univ Tennessee, Coll Vet Med, Dept Environm Practice, Knoxville, Tn 37901, USA
J Agr Food Chem 1992 40 (11) 2164
 Determination of ergonovine in bovine plasma samples

Cullor JS// Univ Calif Davis, Sch Vet Med, Dept Vet Pathol, Davis, Ca 95616, USA
Vet Med-US 1992 87 (12) 1235
 Tests for identifying antibiotic residues in milk - How well do they work?

Deboer J, Duinker JC, Calder JA, Van der Meer J// Netherlands Inst Fisheries Res, POB 68, 1970 AB IJmuiden, The Netherlands
J AOAC Int 1992 75 (6) 1054
 Interlaboratory study on the analysis of chlorobiphenyl congeners

De Boer J, Stronck CJN, Van der Valk F, Wester PG, Daudt MJM// Netherlands Inst Fisheries Res, POB 68, 1970 AB IJmuiden, The Netherlands
Chemosphere 1992 25 (7-10) 1277
 Method for the analysis of non-ortho substituted chlorobiphenyls in fish and marine mammals

De Groot JM, Debukanski BW, Srebrnik S// Minist Sante Publ & Environm, 14 rue J Wytzman, B-1050 Brussels, Belgium
Z Lebensmittel-Untersuch Fors 1992 195 (6) 566
 Immunoaffinity-chromatography purification of salbutamol in liver and HPLC-fluorometric detection at trace residue level

De Jong APJM, Van der Heeft E, Marsman JA, Liem AKD// Natl Inst Publ Hlth & Environm Protect, Organ Analyt Chem Lab, POB 1, 3720 BA Bilthoven, The Netherlands
Chemosphere 1992 25 (7-10) 1551
 Investigation on the occurrence of polyhalogenated (Br/Cl) dibenzodioxins and dibenzofurans in cows milk and fish tissue

De Kok A, Hiemstra M// Food Inspect Serv, Dept Pesticide Anal, Inspectorate Hlth Project, Burgpoelwaard 6, 1824 DW Alkmaar, The Netherlands
J AOAC Int 1992 75 (6) 1063
 Optimization, automation, and validation of the solid-phase extraction cleanup and on-line liquid chromatographic determination of N-methylcarbamate pesticides in fruits and vegetables

Dewailly E, Nantel A, Bruneau S, Laliberte C, Ferron L, Gingras S// CHUL, Dept Community Hlth, 2050 St Cyrille Blvd, St Foy, Quebec, Canada G1V 2K8
Chemosphere 1992 25 (7-10) 1245
 Breast milk contamination by PCDDs, PCDFs and PCBs in arctic Quebec - A preliminary assessment

Eitzer BD, Huang LQ, Paiva AA// Connecticut Agr Expt Stn, Dept Analyt Chem, POB 1106, New Haven, Ct 06504, USA
Chemosphere 1992 25 (7-10) 1305
 Development and performance of a semi-automated clean-up procedure for the analysis of PCDD/PCDF in ground whole fish samples

- Erney DR, Gilvydis DM// US FDA, Pesticides & Ind Chem Res Ctr, 1560 E Jefferson Ave, Detroit, Mi 49207, USA
HRC-J High Res Chromatogr 1992 15 (11) 773
Determination of tetrahydrophthalimide in milk by gas chromatography and nitrogen selective detection
- Forsyth DS, Weber D, Daglish K// Hlth & Welf Canada, Div Food Res, Hlth Protect Branch, Bur Chem Safety, Food Directorate, Ottawa, Ontario, Canada K1A 0L2
J AOAC Int 1992 75 (6) 964
Survey of butyltin, cyclohexyltin, and phenyltin compounds in Canadian wines
- Furst P, Furst C, Wilmers K// State Lab Nth Rhine, Westphalia Food Environm & Pharmaceut Chem, Sperlichstr 19, W-4400 Munster, FRG
Chemosphere 1992 25 (7-10) 1029
PCDDs and PCDFs in human milk - Statistical evaluation of a 6-year survey
- Furst P, Furst C, Wilmers K// State Lab Nth Rhine, Westphalia Food Environm & Pharmaceut Chem, Sperlichstr 19, W-4400 Munster, FRG
Chemosphere 1992 25 (7-10) 1039
Survey of dairy products for PCDDs, PCDFs, PCBs and HCB
- Golden CA// Environm Diagnost Inc, POB 908, 1238 Anthony Rd, Burlington, NC 27216, USA
Agri-Practice 1992 13 (10) 5
Understanding enzyme immunoassays and their application in drug residue detection
- Kuhne M, Kobe A, Fries R, Ebrecht A// Hannover Sch Vet Med, Inst Lebensmittelkunde Fleischhyg & Technol, Bischofsholer Damm 15, W-3000 Hannover 1, FRG
Arch Lebensm 1992 43 (3) 59
Detection of oxytetracycline and furazolidone in poultry by HPLC (German, English Abstract)
- Lang B, Martbauer E, Terplan G// Univ Munich, Fak Tierarztl, Lehrstuhl Hyg & Technol Milch, Schellingstr 10, W-8000 Munich 40, FRG
Arch Lebensm 1992 43 (4) 77
Enzyme immunoassay of tetracyclines in milk (German, English Abstract)
- Lay H, Draeger U// Staatliche Lehr & Versuchsanstalt Wein & Obstbau, Postfach 1309, W-7102 Weinsberg, FRG
Deut Lebensm-Rundsch 1992 88 (11) 349
Determination of pesticides by means of a reactivatable enzyme electrode (German, English Abstract)
- Markus JR, Orangers J// US FDA, Dept Hlth & Human Serv, Ctr Vet Med, Off New Anim Drug Evaluat, 7500 Standish Pl, Rockville, Md 20855, USA
J AOAC Int 1992 75 (6) 1128
Regulatory analytical methods: Animal drugs
- Markus JR, Sherma J// US FDA, Dept Hlth & Human Serv, Ctr Vet Med, Off New Anim Drug Evaluat, 7500 Standish Pl, Rockville, Md 20855, USA
J AOAC Int 1992 75 (6) 1129
Method I - Liquid chromatographic fluorescence determination of alendazole residues in cattle liver
- Markus JR, Sherma J// US FDA, Dept Hlth & Human Serv, Ctr Vet Med, Off New Anim Drug Evaluat, 7500 Standish Pl, Rockville, Md 20855, USA
J AOAC Int 1992 75 (6) 1135
Method II - Gas chromatographic-mass spectrometric confirmatory method for alendazole residues in cattle liver
- Martbauer E// Univ Munich, Fak Tierarzt, Lehrstuhl Hyg & Technol Milch, Vet Str 13, W-8000 Munich 22, FRG
Arch Lebensm-Hyg 1992 43 (2) 34
Enzyme immunoassays for food analysis - Development and characterization of assays for the detection of chemical residues and contaminants (German, English Abstract)
- Moretti VM, Van de Water C, Haagsma N// *Univ Utrecht, Fac Vet Med, Dept Sci Food Anim Origin, POB 80175, 3508 TD Utrecht, The Netherlands
J Chromatogr-Biomed Appl 1992 583 (1) 77
Automated high-performance liquid chromatographic determination of chloramphenicol in milk and swine muscle tissue using on-line immunoaffinity sample clean-up
- Nagata T, Saeki M, Iida T, Kataoka M, Shikano S// Publ Hlth Lab Chiba Prefecture, 666-2 Nitona cho, Chiba, Japan
Brit Poultry Sci 1992 33 (5) 953
Determination of pyrimethamine and sulphadimethoxine residues in eggs by high-performance liquid chromatography
- Neri B, Ubaldi A, Barchi D, Dilullo A, Cozzani R// Ist Zooprofilattico Sperimentale Regioni Lazio & Toscana, Via Appia Nuova 1411, I-00178 Rome, Italy
Ind Aliment 1992 31 (307) 748
Determination of residues of fluvalinate in honey (Italian, English Abstract)
- Page MJ, French M// Florida Dept Agr & Consumer Serv, Bur Chem Residue, 3125 Conner Blvd, Tallahassee, Fl 32301, USA
J AOAC Int 1992 75 (6) 1073
Determination of N-methylcarbamate insecticides in vegetables, fruits, and feeds using solid-phase extraction cleanup in the normal phase
- Pohl-Schmidt J, Ulbrich I, Wissel-Monke-Meyer A// Staatliches Vet Untersuchungsamt, Eintrachtweg 17, W-3000 Hannover 1, FRG
Arch Lebensm-Hyg 1992 43 (1) 3
Modified radioimmunoassay (RIA) for chloramphenicol (CAP) using antibody coated microtiter plates (German, English Abstract)
- Pradas EG, Garcia AV, Vidal JLM, Sanchez JLG// Univ Granada, Fac Ciencias Exptl, Dept Quim Inorgan, Campus Univ Almeria, E-04071 Almeria, Spain
An Quim 1992 88 (4) 486
Application of short columns florasil clean up to the analysis of pesticide residues in vegetables
- Quaglino M, Bottazzini N, Querci C, Ricci M*, Cavalli S// *Ist G Donegani Spa Montedison, Via Fauser 4, I-28100 Novara, Italy
J Amer Oil Chem Soc 1992 69 (12) 1248
Ion chromatographic determination of phosphorus and tungsten in epoxidized soybean oil
- Raju BVP, Naidu RR// Sri Venkateswara Univ, Dept Chem, Tirupati 517502, Andrah Pradesh, India
J Food Sci Technol-Mysore 1992 29 (4) 260
A new spectrophotometric method for the determination of fenvalerate (synthetic pyrethroid)
- Reimer GJ, Suarez A// Cantest Ltd, 1523 W 3rd Ave, Vancouver, BC, Canada V6J 1J8
J AOAC Int 1992 75 (6) 979
Liquid chromatography confirmatory method for 5 sulfonamides in salmon tissue by matrix solid-phase dispersion
- Stephens RD, Rappe C, Hayward DG, Nygren M, Startin J, Esboll A, Carle J, Yrjanheikki EJ// Calif Dept Hlth Serv, Hazardous Mat Lab, Berkeley, Ca 94704, USA
Anal Chem 1992 64 (24) 3109
World Health Organization International Intercalibration study on dioxins and furans in human milk and blood
- Szelag H, Makuch B, Zwierzykowski W// Gdansk Tech Univ, Fac Chem, Dept Technol Fats & Detergents, Majakowskiego Str 11-12, PL-80952 Gdansk, Poland
Fett Wiss Technol 1992 94 (11) 436
Determination of tetrachloroethylene in cocoa butter
- Takatsuki K// Miyagi Prefectural Inst Publ Hlth & Environm, 4-7-2 Saiwai cho, Miyagino ku, Sendai, Miyagi 983, Japan
J AOAC Int 1992 75 (6) 982
Gas chromatographic-mass spectrometric determination of oxolinic, nalidixic, and piromidic acid in fish
- Zomer E, Saul S, Charm SE// Charm Sci, 36 Franklin St, Malden, Ma 02148, USA
J AOAC Int 1992 75 (6) 987
HPLC receptorgram - A method for confirmation and identification of antimicrobial drugs by using liquid chromatography with microbial receptor assay. 1. Sulfonamides in milk

9 TOXINS

- Amzil Z, Pouchus YF*, Lebterff J, Roussakis C, Verbist JF, Marcailloullebaud C, Masselin P// *Univ Nantes, Fac Pharm, Substances Marines Activ Biol Res Grp, BP 1024, F-44035 Nantes 01, France
Toxicon 1992 30 (11) 1419
Short-time cytotoxicity of mussel extracts - A new bioassay for okadaic

acid detection

Chu FS// Univ Wisconsin, Food Res Unit, Madison, WI 53706, USA
J Anim Sci 1992 70 (12) 3950

Recent progress on analytical techniques for mycotoxins in feedstuffs

Dowell FE, Tsai YJ, Dorner JW, Cole RJ, Davidson JJ// USDA ARS, Natl Peanut Res Lab, Dawson, Ga 31742, USA
Oleagineux 1992 47 (10) 583

Performance of visual and chemical methods in identifying aflatoxin contamination in farmers stock peanuts(1)

Friedman M, Levin CE// USDA ARS, Western Reg Res Ctr, Food Safety Res Unit, 800 Buchanan St, Berkeley, Ca 94710, USA
J Agr Food Chem 1992 40 (11) 2157

Reversed-phase high-performance liquid chromatographic separation of potato glycoalkaloids and hydrolysis products on acidic columns

Furst C, Meseke H// Chem Landesuntersuch Nordrhein Westfalen, Sperlichstr 19, W-4400 Munster, FRG
Deut Lebensm-Rundsch 1992 88 (11) 341

A screening method for the determination of organic isothiocyanates in wine and sparkling wine (German, English Abstract)

Gannon VPJ, King RK, Kim JY, Thomas EJJ// Agr Canada, Anim Dis Res Inst, POB 640, Lethbridge, Alberta, Canada T1J 3Z4, *Appl Environ Microbiol* 1992 58 (12) 3809

Rapid and sensitive method for detection of shiga-like toxin-producing *Escherichia coli* in ground beef using the polymerase chain reaction

Hahn G// Inst Hyg, Bundesanstalt Milchwissenschaft, W-2300 Kiel, FRG
Arch Lebensm-Hyg 1992 43 (1) 6

Serological characterization of a crude toxin (staphylococcal enterotoxin A) produced by a simple procedure for the use in specific examinations (German, English Abstract)

Hirschwehr R, Valenta R, Ebner C, Ferreira F, Sperr WR, Valent P, Rohac M, Rumpold H, Scheiner O, Kraft D*// *Univ Vienna, AKH, Inst Gen & Exptl Pathol, Wahringer Gurtel 18-20, A-1090 Vienna, Austria
J Allerg Clin Immunol 1992 90 (6) 927

Identification of common allergenic structures in hazel pollen and hazelnuts - A possible explanation for sensitivity to hazelnuts in patients allergic to tree pollen

Huang AS, Tanudjaja LS// Univ Hawaii Manoa, Dept Food Sci & Human Nutr, 1800 E W Rd, Honolulu, HI 96822, USA
J Agr Food Chem 1992 40 (11) 2123

Application of anion-exchange high-performance liquid chromatography in determining oxalates in taro (*Colocasia esculenta*) corms

Iwaoka W, Horita J, Shimojo R, Tran T// Univ Hawaii, Dept Food Sci & Human Nutr, 1800 EW Rd, Honolulu, HI 96822, USA
Toxicon 1992 30 (12) 1575

Analysis of *Acanthurus triostegus* for marine toxins by the stick enzyme immunoassay and mouse bioassay

Kollipara KP, Hymowitz T*// *Univ Illinois, Urbana, IL 61801, USA
J Agr Food Chem 1992 40 (12) 2356

Characterization of trypsin and chymotrypsin inhibitors in the wild perennial *Glycine* species

Lawson DR, Erb WA, Miller AR*// *Ohio State Univ, Ohio Agr Res & Dev Ctr, Dept Hort, Wooster, OH 44691, USA
J Agr Food Chem 1992 40 (11) 2186

Analysis of *Solanum* alkaloids using internal standardization and capillary gas chromatography

Marr JC, Hu T, Pleasance S, Quilliam MA, Wright JLC// Fenwick Labs Ltd, Suite 200, 5595 Fenwick St, Halifax, NS, Canada B3H 4M2
Toxicon 1992 30 (12) 1621

Detection for new 7-O-acyl derivatives of diarrhetic shellfish poisoning toxins by liquid chromatography-mass spectrometry

Masselin P, Lassus P, Bardouil M// IFREMER, Ctr Nantes, BP 1049, F-44037 Nantes 01, France
J Appl Phycol 1992 4 (4) 385

High-performance liquid chromatography analysis of diarrhetic toxins in *Dinophysis* spp from the French coast

Minami Y, Nakahara Y, Funatsu G*// *Kyushu Univ, Fac Agr, Prot Chem & Engn Lab, Fukuoka 812, Japan
Biosci Biotechnol Biochem 1992 56 (9) 1470

Isolation and characterization of 2 momordins, ribosome-inactivating proteins from the seeds of bitter melon (*Momordica charantia*)

Moller TE, Gustavsson HF// Natl Food Adm Toxicol Lab, Div Chem 2, Box 622, S-75126 Uppsala, Sweden
J AOAC Int 1992 75 (6) 1049

Determination of type-A and type-B trichothecenes in cereals by gas chromatography with electron capture detection

Orden JA, Goyache J, Hernandez J, Domenech A, Suarez G*, Gomez-Lucia E// *Univ Complutense, Fac Vet, Dept Patol Anim 1, E-28040 Madrid, Spain
Appl Environ Microbiol 1992 58 (12) 4083

Applicability of an immunoblot technique combined with a semiautomated electrophoresis system for detection of staphylococcal enterotoxins in food extracts

Plhak LC, Sporns P*// *Univ Alberta, Dept Food Sci, Edmonton, Alberta, Canada T6G 2P5
J Agr Food Chem 1992 40 (12) 2533

Enzyme immunoassay for potato glycoalkaloids

Pohl J, Becker H// Univ Munich, Lehrstuhl Hyg & Technol Milch, Vet Str 13, W-8000 Munich 22, FRG
Arch Lebensm-Hyg 1992 43 (2) 32

Development of an enzyme immunoassay for the detection of *Staphylococcus aureus* thermolysin in food (German, English Abstract)

Prieta J, Moreno MA, Blanco JL, Suarez G, Dominguez L*// *Univ Complutense, Fac Vet, Dept Patol Anim 1, E-28040 Madrid, Spain
J Food Protect 1992 55 (12) 1001

Determination of patulin by diphasic dialysis extraction and thin-layer chromatography

Schneider E, Usleber E, Dietrich R// Univ Munich, Fak Tierarzt, Lehrstuhl Hyg & Technol Milch, Vet Str 13, W-8000 Munich 22, FRG
Arch Lebensm-Hyg 1992 43 (2) 36

Development of rapid immunochemical dipstick assays for the detection of trichothecenes and saxitoxin (German, English Abstract)

Shestowsky WS, Quilliam MA, Sikorska HM*// *Rougier Biotech Ltd, 8480 Blvd St Laurent, Montreal, Quebec, Canada H2P 2M6
Toxicon 1992 30 (11) 1441

An idiotypic-anti-idiotypic competitive immunoassay for quantitation of okadaic acid

Shiomi K, Tsuchiya S, Shimakura K, Kikuchi T// Tokyo Univ Fisheries, Dept Food Sci & Technol, Minato ku, Tokyo 108, Japan
Nippon Suisan Gakkaishi 1992 58 (4) 781

Purification and properties of a proteinaceous toxin in the skin mucus of the Japanese eel

Usleber E, Renz V, Martlbauer E, Terplan G// Univ Munich, Inst Tierarztl, Inst Hyg & Technol Lebensmittel Tierursprungs, Schellingstr 10-3, W-8000 Munich 40, FRG
J Vet Med B-Zbl Vet B-Infekt 1992 39 (8) 617

Studies on the application of enzyme immunoassays for the *Fusarium* mycotoxins deoxynivalenol, 3-acetyldeoxynivalenol, and zearalenone

Winfree RA, Allred A// US Fish & Wildlife Serv, Tunison Lab Fish Nutr, Hagerman Field Stn, 3059F Natl Fish Hatchery Rd, Hagerman, ID 83332, USA
Prog Fish-Cult 1992 54 (3) 157

Bentonite reduces measurable aflatoxin B₁ in fish feed

Yamamoto M, Sugiyama K, Yokota M, Maeda Y, Senda N, Shizukuishi K, Nakazawa H// Univ Shizuoka, Sch Pharmaceut Sci, 52-1 Yada, Shizuoka 422, Japan
Jpn J Toxicol Environm Health 1992 38 (4) 324

Secondary ionization mass spectrometry-linked scanning analysis for identification of aloenin in foods containing *Aloe arborescens* Miller

Zaadhof KJ// Schellingstr 10-111, W-8000 Munich 40, FRG
Arch Lebensm-Hyg 1992 43 (2) 28

Assays for the detection of staphylococcal enterotoxins in food (German, English Abstract)

10 ADDITIVES

Castro JCG, Delgado MAR, Sanchez MJ, Montelongo FG// Univ La Laguna, Dept Analyt Chem Food Sci & Toxicol, E-38070 La Laguna, Spain

Anal Lett 1992 25 (12) 2367

Simultaneous 2nd-order derivative spectrophotometric determination of sorbic and benzoic acids in soft drinks

De Stefanis VA// Elf Atochem Nth Amer Inc, Dept Flour Serv, Buffalo, NY 14240, USA

Cereal Chem 1992 69 (6) 683

Analysis of potassium bromate in flour, dough, and bread

Saito K, Yamamoto T, Miyamoto K// Hokkaido Tokai Univ, Sch Engr, Dept Biosci & Technol, Sapporo 005, Japan

Z Lebensmittel-Untersuch Fors 1992 195 (6) 550

Isolation and partial purification of carthamine - An instrumentation manual

11 FLAVOURS & AROMAS

Angerosa F, Di Giacinto L, Solinas M// Ist Sperimentale Elaiotecn, Via Cesare Battisti 198, I-65100 Pescara, Italy

Grasas Aceites 1992 43 (3) 134

Influence on *Dacus oleae* infestation on flavor of oils, extracted from attacked olive fruits, by HPLC and HRGC analyses of volatile compounds

Block E, Naganathan S, Putman D, Zhao SH// SUNY Albany, Dept Chem, Albany, NY 12222, USA

J Agr Food Chem 1992 40 (12) 2418

Allium chemistry - HPLC analysis of thiosulfinates from onion, garlic, wild garlic (ramsoms), leek, scallion, shallot, elephant (great headed) garlic, chive, and Chinese chive - Uniquely high allyl to methyl ratios in some garlic samples

Block E, Putman D, Zhao SH// SUNY Albany, Dept Chem, Albany, NY 12222, USA

J Agr Food Chem 1992 40 (12) 2431

Allium chemistry - GC-MS analysis of thiosulfinates and related compounds from onion, leek, scallion, shallot, chive, and Chinese chive

Dietrich A, Maas B, Brand G, Karl V, Kaunzinger A, Mosandl A// Univ Frankfurt, Inst Lebensmittelchem, Robert Mayer Str 7-9, W-6000 Frankfurt, FRG

HRC-J High Res Chromatogr 1992 15 (11) 769

Stereoisometric flavor compounds. 60. Diluted modified cyclodextrins as chiral stationary phases - The influence of the polysiloxane solvent

Farkas P, Hradsky P, Kovac M// Food Res Inst, Priemyselna 4, POB 25, CS-82006 Bratislava, Czechoslovakia

Z Lebensmittel-Untersuch Fors 1992 195 (5) 459

Novel flavour components identified in the steam distillate of onion (*Allium cepa* L)

Johnson TS, Ravishankar GA, Venkataraman LV**// *Cent Food Technol Res Inst, Mysore 570013, Karnataka, India

J Agr Food Chem 1992 40 (12) 2461

Separation of capsaicin from phenylpropanoid compounds by high-performance liquid chromatography to determine the biosynthetic status of cells and tissues of *Capsicum frutescens* Mill *in vivo* and *in vitro*

Kaipainen A// Cultor Ltd, Ctr Technol, SF-02460 Kantvik, Finland

HRC-J High Res Chromatogr 1992 15 (11) 751

A study of the aroma profiles of non-alcohol beer by thermal desorption and GC-MS

Kristiansen NK, Lundanes E, Froshaug M, Utkilen H// Norwegian Food Res Inst, Matforsk, Oslo 1, N-1430 AS, Norway

Chemosphere 1992 25 (11) 1631

Determination and identification of volatile organic compounds in drinking water produced offshore

Misharina TA, Golovnya RV// Russian Acad Sci, Inst Food Subst, Moscow, Russia

J Anal Chem-Engl Tr 1992 47 (4 Pt 1) 475

Efficiency of the extraction of volatile substances from food products by various methods

Nagashima M, Nakatani N**// *Osaka City Univ, Fac Sci Living, Dept Food & Nutr, 3-3-138 Sugimoto, Osaka 558, Japan

Food Sci Technol-Lebensm Wiss 1992 25 (5) 417

LC-MS analysis and structure determination of pungent alkamides from *Spiranthes acmella* L flowers

Nisperos-Carriedo MO, Baldwin EA, Moshonas MG, Shaw PE// USDA ARS, US Citrus & Subtrop Prod Lab, Sth Atlantic Area, POB 1909, Winter Haven, FL 33883, USA

J Agr Food Chem 1992 40 (12) 2464

Determination of volatile flavor components, sugars, and ascorbic, dehydroascorbic, and other organic acids in calamondin (*Citrus mitis blanco*)

Tokitomo Y, Kobayashi A// Yamanashi Univ, Fac Educ, 4-4-37 Takeda, Kofu, Yamanashi 400, Japan

Biosci Biotechnol Biochem 1992 56 (11) 1865

Isolation of the volatile components of fresh onion by thermal desorption cold trap capillary gas chromatography

Yoshiwa T, Morimoto K, Sakamoto K, Ishikawa Y// Hiroshima Prefectural Food Technol Res Ctr, Minami ku, Hiroshima 732, Japan

Nippon Suisan Gakkaishi 1992 58 (11) 2105

Analysis of volatile components in sardine by purge and trap method (Japanese, English Abstract)

13 ANIMAL PRODUCTS

Bosset JO, Collomb M, Eberhard P, Grand M, Lavanchy P, Kaufmann E, Kreuter U// Stn Fed Rech Laitieres, CH-3097 Lieberfeld, Switzerland

Chimia 1992 46 (10) 406

Application of methods of univariate and multivariate statistical analysis to parallel study of chemical, biochemical, rheological, microbiological and sensory criteria in the appraisals of Emmental cheese. 1. Analysis of some distribution profiles

De Fernando GDG, Fernandez M, Diaz O, Ordonez JA, Hoz L// Univ Complutense, Fac Vet, Dept Hyg & Tecnol Alimentos, E-28040 Madrid, Spain

Arch Lebensm-Hyg 1992 43 (1) 13

An objective method to differentiate between fresh and thawed trout meat (*Salmo gairdneri*)

De Jong EAM, Klomp H, Ellen G, Van Hemert H// Netherlands Inst Dairy Res, POB 20, 6710 BA Ede, The Netherlands

Neth Milk Dairy J 1992 46 (2) 115

Evaluation of a segmented-flow method for the routine determination of urea in milk

Henning W, Wedekind R, Bertling L// Gemeinschaftl Chem Untersuchungsinst Wuppertal & Solingen, Sanderstr 161, W-5600 Wuppertal 2, FRG

Fleischwirtschaft 1992 72 (10) 1428

Detection of *Monascus* pigments in meat products

Hutchinson MJ, Lirette A, Etches RJ*, Towner RA, Janzen EG// *Univ Guelph, Dept Anim & Poultry Sci, MRI Facil, Guelph, Ontario, Canada N1G 2W1

Poultry Sci 1992 71 (12) 2117

As assessment of egg yolk structure using magnetic resonance imaging

Isaksson T, Miller CE, Naes T// Norwegian Food Res Inst, Oslo 1, N-1430 AS, Norway

Appl Spectrosc 1992 46 (11) 1685

Nondestructive NIR and NIT determination of protein, fat, and water in plastic wrapped homogenized meat

Karl H// Bundesforsch Anstalt Fischerei, Inst Biochem & Technol, Palmaille 9, W-2000 Hamburg 50, FRG

Arch Lebensm 1992 43 (4) 93

Use of the fish tester for determination of freshness of herring and herring fillet (German, English Abstract)

Li NJ, Endo H, Hayashi T, Watanabe E// Tokyo Univ Fisheries, Dept Food Sci & Technol, Minato ku, Tokyo 108, Japan

Nippon Suisan Gakkaishi 1992 58 (11) 2039

A trial of pH sensor system for determination of fish freshness (Japanese, English Abstract)

Marquez MF, Lopez R, Garcia-Villanova B// Univ Granada, Fac Farm, Dept Nutr & BromatoI, E-18072 Granada, Spain

Aust J Dairy Technol 1992 47 (1) 56

Determination of total solids in milk by microwave drying and its effect on hydroxymethylfurfural formation

Saito H, Udagawa M// Minist Agr Forestry & Fisheries, Natl Res Inst Fisheries Sci, Lipid Chem Lab, Tokyo 104, Japan

J Amer Oil Chem Soc 1992 69 (11) 1157

Assessment of oxidative deterioration of salted dried fish by nuclear magnetic resonance

Sharma SK, Hill AR, Mittal GS// Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

Milchwissenschaft 1992 47 (11) 701

Evaluation of methods to measure coagulation time of ultrafiltered milk

Stiebing A, Rodel W// Fachsch Lippe, Liebigstr 87, W-4920 Lemgo, FRG
Fleischwirtschaft 1992 72 (11) 1547
The continuous measurement of surface water activity in dry sausage
(German, English Abstract)

14 PLANT & MICROBIAL PRODUCTS

Bernwieser I, Sontag G*// *Univ Vienna, Inst Analyt Chem, Wahringer Str 38, A-1090 Vienna, Austria
Z Lebensmittel-Untersuch Fors 1992 195 (6) 559
Determination of phenolic acids in vegetable oil using HPLC coupled with multielectrode detection

Bourlet P// Address not available
Int Sugar J 1992 94 (1126) 248
Chromatographic techniques for nonsugars (ICUMSA News)

Chapon L// Univ Nancy, Montee Ales, F-30140 Anduze, France
J Inst Brew 1993 99 (1) 49
Nephelometry as a method for studying the relations between polyphenols and proteins

Dao L, Friedman M*// *USDA ARS, Western Reg Res Ctr, Food Safety Res Unit, 800 Buchanan St, Berkeley, Ca 94710, USA
J Agr Food Chem 1992 40 (11) 2152
Chlorogenic acid content of fresh and processed potatoes determined by ultraviolet spectrophotometry

Dizy M, Martin-Alvarez PJ, Cabezudo MD, Polo MC*// *CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain
J Sci Food Agr 1992 60 (1) 47
Grape, apple and pineapple juice characterisation and detection of mixtures

Forcen M, Mulet A, Berna A// Univ Illes Balears, Dept Chem, Crta Valldemosa Km 75, E-07071 Palma de Mallorca, Spain
J Sci Food Agr 1992 60 (2) 229
Contribution of gas chromatographic and conventional data to the characterisation of Majorcan musts and wines by means of pattern recognition techniques

Fox GP, Henry RJ// Queensland Wheat Res Inst, POB 2282, Toowoomba 4350, Australia
J Inst Brew 1993 99 (1) 73
A rapid small scale method for the determination of malt extract

Goodman BA, Williamson B, Chudek JA// Scottish Crop Res Inst, Dundee DD2 5DA, Scotland
New Phytol 1992 122 (3) 529
Nuclear magnetic resonance (NMR) micro-imaging of raspberry fruit - Further studies on the origin of the image

Hill JO, Korce S, Lim S, Scollary GR// Natl Univ Singapore, Dept Chem, Kent Ridge, Singapore 0511, Singapore
Thermochim Acta 1992 209 301
A thermometric enthalpy titration (TET) study of some Australian wines

Lie S// Address not available
J Inst Brew 1993 99 (1) 25
Use of filter papers in malt analysis (Committee Report)

Lie S// Address not available
Monatsschr Brauwissen 1992 45 (12) 413
Use of filter papers in malt analysis (German, English Abstract)

Marques JPM, Rutledge DN*, Ducauze CJ// *Inst Natl Agron Paris Grignon, Chim Analyt Lab, 16 rue Claude Bernard, F-75231 Paris 05, France
Sci Aliment 1992 12 (4) 613
A rapid low resolution pulse NMR method to detect particular water mobilities during the drying of carrots

McCaig TN, McLeod JG, Clarke JM, Depauw RM// Agr Canada, Res Branch, Swift Current, Saskatchewan, Canada S9H 3X2
Cereal Chem 1992 69 (6) 671
Measurement of durum pigment with a near-infrared instrument operating in the visible range

Morvai M, Molnar-Perl I*// *Eotvos Univ, Inst Inorgan & Analyt Chem, POB 32, H-1518 Budapest 112, Hungary
Chromatographia 1992 34 (9-10) 502
Simultaneous gas chromatographic quantitation of sugars and acids in citrus fruits, pears, bananas, grapes, apples and tomatoes

Mueller-Harvey I, Reed JD// AFRC, Inst Food Res, Earley Gate, Whiteknights Rd, Reading RG6 2EF, England
J Sci Food Agr 1992 60 (2) 179
Identification of phenolic compounds and their relationships to *in vitro* digestibility of *Sorghum* leaves from bird-resistant and nonbird-resistant varieties

Mullin WJ, Emery JPH// Agr Canada, Ctr Food & Anim Res, Res Branch, Ottawa, Ontario, Canada K1A 0C6
J Agr Food Chem 1992 40 (11) 2127
Determination of alkylresorcinols in cereal-based foods

Nagata M, Yamashita I// Minist Agr Forestry & Fisheries, Natl Res Inst Vegetables Ornamental Plants & Tea, 360 Kusawa, Ano, Mie 51423, Japan
J Jpn Soc Food Sci Technol 1992 39 (10) 925
Simple method for simultaneous determination of chlorophyll and carotenoids in tomato fruit

Poocharoen B, Barbour JF, Libbey LM, Scanlan RA*// *Oregon State Univ, Dept Food Sci & Technol, Corvallis, Or 97331, USA
J Agr Food Chem 1992 40 (11) 2216
Precursors of N-nitrosodimethylamine in malted barley. 1. Determination of hordenine and gramine

Porretta S, Poli G, Rondelli M, Zanageli G// Dept Tomato Prod, Staz Sperimentale Ind Conserve Alimentari, Viale Tanara 31-A, I-43100 Parma, Italy
Food Sci Technol-Lebensm Wiss 1992 25 (5) 487
Definition of tomato pulp quality using a multivariate QDA method

Ramana SV, Taylor AJ*// *Univ Nottingham, Dept Appl Biochem & Food Sci, Loughborough LE12 5RD, England
J Sci Food Agr 1992 60 (1) 39
Development of a method to measure rheological properties of carrot cell and cell-wall materials

Ruan RS, Litchfield JB, Eckhoff SR// Univ Minnesota, Dept Food Sci & Nutr, St Paul, Mn 55108, USA
Cereal Chem 1992 69 (6) 600
Simultaneous and nondestructive measurement of transient moisture profiles and structural changes in corn kernels during steeping using microscopic nuclear magnetic resonance imaging

Schenkel E, Duez P, Hanocq M// Univ Libre Bruxelles, Unite Chim Bioanalyt Toxicol & Chim Phys Appl, CP 205 1, B-1050 Brussels, Belgium
J Chromatogr 1992 625 (2) 289
Stereoselective determination of cucurbitine in *Cucurbita* spp seeds by gas chromatography and gas chromatography-mass spectrometry

Seaton JC, Cantrell IC// Address not available
J Inst Brew 1993 99 (1) 21
The determination of beer colour - Collaborative trial (Committee Report)

Vaughan EE, Daly C, Fitzgerald GF*// *Natl Univ Ireland, Univ Coll Cork, Dept Food Microbiol, Cork, Ireland
J Appl Bacteriol 1992 73 (4) 299
Identification and characterization of helveticin V-1829, a bacteriocin produced by *Lactobacillus helveticus* 1829

Weinberg DS, Mainer ML, Richardson MD, Haibach FG, Rogers TS// Sth Res Inst, Dept Analyt & Phys Chem Res, Birmingham, Al 35205, USA
HRC-J High Res Chromatogr 1992 15 (10) 641
Identification and quantification of anticarcinogens in garlic extract and licorice root extract powder

Yoo LJ, Barbour JF, Libbey LM, Scanlan RA*// *Oregon State Univ, Dept Food Sci & Technol, Corvallis, Or 97331, USA
J Agr Food Chem 1992 40 (11) 2222
Precursors of N-nitrosodimethylamine in malted barley. 2. Determination of dimethylamine