



# Bibliography on analytical food chemistry

## 1 BOOKS, REVIEWS & SYMPOSIA

Ellis WO, Smith JP, Simpson BK, Oldham JH/McGill Univ, Dept Food Sci & Agr Chem, Montreal, Quebec, Canada H3A 2T5  
CRIT REV FOOD SCI NUTR 1991, 30 (4) 403  
Aflatoxins in food - Occurrence, biosynthesis, effects on organisms, detection, and methods of control

Lemieux L, Puchades R, Simard RE/Univ Laval, Dept Sci & Technol Aliments, Rech Stela Grp, St Foy, Quebec, Canada G1K 7P4  
FOOD SCI TECHNOL-LEBENSM WISS 1991, 24 (3) 189  
Overview of rapid methods and automation in food microbiology with emphasis on flow injection analysis (Review)

Arens M, Fiebig HJ/Fette Bundesanstalt Getreide Kartoffe & Fettforsch, Inst Chem & Phys, Piusallee 76, W-4400 Munster, FRG  
FETT WISS TECHNOL 1991, 93 (7) 268  
Glucosinolates (X-ray fluorescence spectrometry) - Survey by a Working Party of the DGF 122nd report. German standard methods for investigation of fats, fatty products, tensides and related materials. 93rd report. Analysis of fat raw materials-XI (German, English Abstract)

Fukal L/Prague Inst Chem Technol, Fac Food Biochem & Technol, Dept Biochem & Microbiol, Technika 5, CS-16628 Prague 6, Czechoslovakia  
NAHRUNG 1991, 35 (5) 431  
Modern immunoassays in meat-product analysis - Review article

Kneifel W, Paquin P, Abnert T, Richard JP/Univ & Agr Vienna, Dept Dairy Res & Bacteriol, A-1180 Vienna, Austria  
J DAIRY SCI 1991, 74 (7) 2027  
Water-holding capacity of proteins with special regard to milk proteins and methodological aspects - A review

Arens M, Fiebig HJ, Gertz C/Krusbreede 34, W-4400 Munster, FRG  
FETT WISS TECHNOL 1991, 93 (6) 222  
Total sterols (enzymatic method) - Survey by a Working Party of the DGF, 121st report - German standard methods for investigation of fats, fatty products, tensides and related materials, 92nd report - Analysis of minor components of lipids. IX. (German, English Abstract)

Cairns T, Siegmund EG/Dept Hlth & Human Serv, Food & Drug Adm, Los Angeles, Ca, USA  
CRIT REV FOOD SCI NUTR 1991, 30 (4) 397  
Confirmation of trace level residues in the food supply

## 2 GENERAL

Abdulhamid J, Beh SK, Donian AM, Moody GJ, Thomas JDR/Univ

Wales Coll Cardiff, Sch Chem & Appl Chem, POB 912, Cardiff CF1 3TB, Wales

J SCI FOOD AGR 1991, 55 (2) 323

Sterilisation with  $^{60}\text{Co}$  gamma-radiation of immobilised enzyme membranes for use in electrodes for food analysis

Brooker BE//AFRC, Inst Food Res, Dept Biotechnol & Enzymol, Reading RG2 9AT, England

FOOD STRUCT 1991, 10 (2) 145

Recent developments in the application of X-ray microanalysis to the study of food systems

Charbonneau JE/Natl Food Processors Assoc, 1401 New York Ave NW, Washington, DC 20005, USA

FOOD STRUCT 1991, 10 (2) 171

Application of scanning electron microscopy and X-ray microanalysis to investigate corrosion problems in plain and enamelled 3 piece welded food cans

Desrosiers MF, Wilson GL, Hunter CR, Hutton DR/Natl Inst Stand & Technol, Ctr Radiat Res, Gaithersburg, Md 20899, USA

APPL RADIAT ISOT-INT J RAD A 1991, 42 (7) 613

Estimation of the absorbed dose in radiation-processed food. 1. Test of the EPR response function by a linear regression analysis

Desrosiers MF/Natl Inst Stand & Technol, Ctr Radiat Res, Gaithersburg, Md 20899, USA

APPL RADIAT ISOT-INT J RAD A 1991, 42 (7) 617

Estimation of the absorbed dose in radiation-processed food. 2. Test of the EPR response function by a linear regression analysis

Short C/Rowett Res Inst, Human Nutr Univ, Blackburn AB2 9SB, Aberdeen, Scotland

BRIT J NUTR 1991, 65 (3) 507

Issues relating to nutrient analysis (Letter)

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Grunau JA, Swiader JM/Univ Illinois, Dept Hort, 1707 S Orchard St, Urbana, Il 61801, USA

J PLANT NUTR 1991, 14 (7) 653

Chromatographic quantitation of free amino acids - S-methylmethionine, methionine and lysine in corn

Nishimura T, Kato Y, Okitani A, Kato H/Univ Tokyo, Dept Agr Chem, Tokyo 113, Japan

AGR BIOL CHEM TOKYO 1991, 55 (7) 1771

Purification and properties of aminopeptidase-C from chicken skeletal muscle

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

- Nishimura T, Rhyu MR, Kato H//Univ Tokyo, Dept Agr Chem, Tokyo 113, Japan  
**AGR BIOL CHEM TOKYO** 1991, 55 (7) 1779  
 Purification and properties of aminopeptidase-H from porcine skeletal muscle
- El-Hawary FI//El-Mansoura Univ, Fac Agr, Dept Agr Bot, Mansoura, Egypt  
**ACTA ALIMENT** 1991, 20 (2) 85  
 Purification and characterization of alpha-amylase produced by a thermostable isolate of *Bacillus coagulans*
- Warner DA, Grove MJ, Knutson CA//USDA ARS, Natl Ctr Agr Utilizat Res, Seed Biosynth Res Unit, 1815 N Univ St, Peoria, IL 61604, USA  
**CEREAL CHEM** 1991, 68 (4) 383  
 Isolation and characterization of alpha-amylases from endosperm of germinating maize
- Ngkwaibhang KF, Zadworny D\*, Hayes JF, Kuhnlein U//McGill Univ, MacDonald Coll, Dept Anim Sci, St Anne Bellevue, Quebec, Canada H9X 1C0  
**J DAIRY SCI** 1991, 74 (8) 2410  
 Identification of  $\kappa$ -casein genotype in Holstein sires - A comparison between analysis of milk samples from daughters and direct analysis of semen samples from sires by polymerase chain reaction
- Vreeman HJ, Van Markwijk BW, Both P//Netherlands Inst Dairy Res, POB 20, 6710 BA Ede, The Netherlands  
**J DAIRY RES** 1991, 58 (3) 299  
 Size distribution and average size parameters of casein micelles determined by electron microscopy in bovine milk between pH 5.5 and 6.7 - A comparison of several evaluation methods
- Sutton KH//DSIR, Grain Proc Lab, Lincoln, New Zealand  
**J CEREAL SCI** 1991, 14 (1) 25  
 Qualitative and quantitative variation among high molecular weight subunits of glutenin detected by reversed-phase high-performance liquid chromatography
- Paulis JW, Bietz JA, Lambert RJ, Villegas EM//USDA ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res Unit, Peoria, IL 61604, USA  
**CEREAL CHEM** 1991, 68 (4) 361  
 Identification of modified high-lysine maize genotypes by reversed-phase high-performance liquid chromatography
- Lichan E, Nakai S//Univ British Columbia, Dept Food Sci, 6650 NW Marine Dr, Vancouver, BC, Canada V6T 1Z4  
**J AGR FOOD CHEM** 1991, 39 (7) 1238  
 Raman spectroscopic study of thermally and/or dithiothreitol induced gelation of lysozyme
- Leonil J, Molle D//INRA, Rech Technol Laitiere Lab, 65 rue St Brieuc, F-35042 Rennes, France  
**J DAIRY RES** 1991, 58 (3) 321  
 A method for determination of macropeptide by cation-exchange fast protein liquid chromatography and its use for following the action of chymosin in milk
- Dellano DG, Polo MC, Ramos M//CSIC, Inst Fermentac Ind, Juan Cervia 3, E-28006 Madrid, Spain  
**J DAIRY RES** 1991, 58 (3) 363  
 Production, isolation and identification of low molecular mass peptides from blue cheese by high performance liquid chromatography
- Horikoshi M, Kobayashi H, Yamazoe Y, Mikami B, Morita Y//Shiga Univ, Fac Educ, Otsu, Shiga 520, Japan  
**J CEREAL SCI** 1991, 14 (1) 1  
 Purification and complete amino acid sequence of a major prolamin of rice endosperm
- Miyakawa H, Kobayashi S, Shimamura S, Tomita M//Morinaga Milk Ind Co Ltd, Nutr Sci Lab, 1-83 5-Chome higashihara, Zama City, Kanagawa 228, Japan  
**J DAIRY SCI** 1991, 74 (8) 2375  
 Purification and characterization of an X-prolyl dipeptidyl aminopeptidase from *Lactobacillus delbrueckii* ssp *Bulgarius* LBU-147
- Tsao CY, Nagayama F//Tokyo Univ Fisheries, Dept Food Sci & Technol, 5-7 Konan 4, Minato ku, Tokyo 108, Japan  
**J FOOD BIOCHEM** 1991, 15 (2) 81  
 Purification and characterization of proteases from oyster (*Crassostrea gigas*)
- Barber DL, Lott JNA, Harris DA//McMaster Univ, Dept Biol, Hamilton, Ontario, Canada, L8S 4K1  
**FOOD STRUCT** 1991, 10 (2) 137  
 Practical methods for identification of rice endosperm protein bodies and fecal protein particles in light microscopy
- Chaufer B, Rollin M, Sebille B//Univ Paris 12, Physicochim Biopolymers Lab, CNRS, UM 27, 2-8 rue Henry Dunant, F-94320 Thiais, France  
**J CHROMATOGR** 1991, 548 (1-2) 215  
 High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives
- Hebshi EA//Tech Univ Budapest, Dept Biochem & Food Technol, PF-91, H-1502 Budapest, Hungary  
**ACTA ALIMENT** 1991, 20 (2) 109  
 Investigation of the solubility of cereal germ protein concentrates
- Paredes-Lopez O, Ordonez-Falomir C, Olivares-Vazquez MR//Inst Politecn Naci, Ctr Invest & Estudios Avanzados, Unidad Irapuato, Apdo Postal 629, Irapuato 36500, Mexico  
**J FOOD SCI** 1991, 56 (3) 726  
 Chickpea protein isolates - Physicochemical, functional and nutritional characterization
- Visser S, Slangen CJ, Rollema HS//Netherlands Inst Dairy Res, Dept Biophys Chem, POB 20, 6710 BA Ede, The Netherlands  
**J CHROMATOGR** 1991, 548 (1-2) 361  
 Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography
- Tatham AS, Shewry PR//Univ Bristol, AFRC, Inst Arable Crops Res, Dept Agr Sci, Long Ashton Res Stn, Bristol BS18 9AF, England  
**J CEREAL SCI** 1991, 14 (1) 15  
 Conformational analysis of the secalin storage proteins of rye (*Secale cereale* L.)
- Koga T, Nakamura K, Shirokane Y, Mizusawa K, Kitao S, Kikuchi M//Kikkoman Foods Inc, Div Res & Dev, 399 Noda, Chiba 278, Japan  
**AGR BIOL CHEM TOKYO** 1991, 55 (7) 1805  
 Purification and some properties of sucrose phosphorylase from *Leuconostoc mesenteroides*

## 4 CARBOHYDRATES

Svegmark K, Hermansson AM//Swedish Inst Food Res, POB 5401, S-40229 Gothenberg, Sweden

**FOOD STRUCT** 1991, 10 (2) 117

Distribution of amylose and amylopectin in potato starch pastes - Effects of heating and shearing

Coppa GV, Gabrielli O, Pierani P, Zampini L, Rootoli A, Carlucci A, Giorgi PL//Univ Ancona, Pediat Clin, Via F Cornidoni 11, I-60123 Ancona, Italy

RIV ITAL PED 1991, 17 (3) 303

Qualitative and quantitative studies of carbohydrates of human colostrum and mature milk (Italian, English Abstract)

Gotsick JT, Benson RF//Rainin Instrument Co, 1780 4th St, Berkeley, Ca 94710, USA

J LIQ CHROMATOGR 1991, 14 (10) 1887

HPLC analysis of carbohydrates important to beer brewing using an aminopropyl stationary phase

Henle T, Walter H, Klostermeyer H//Tech Univ Minich, Lehrstuhl Milchwissenschaft, W-8050 Freising, FRG

Z LEBENSMITTEL-UNTERSUCH FORS 1991, 193 (2) 119

Evaluation of the extent of the early Maillard-reaction in milk products by direct measurement of the Amadori-product lactuloselysine

Sensidoni A, Munari M, Lerici CR//Univ Udine, Ist Technol Alimentari, via Marangoni 97, I-33100 Udine, Italy

FOOD SCI TECHNOL-LEBENSM WISS 1991, 24 (3) 218

Early indicators of chemical changes in foods due to enzymic or non-enzymic browning reactions. 3. Study on heat treated model systems by HPLC separation of some Maillard reaction products

Phillips KM, Plamer JK//Techlab Inc, 1861 Pratt Dr, Blacksburg, Va 24060, USA

J AGR FOOD CHEM 1991, 39 (7) 1216

Effect of freeze-drying and heating during analysis on dietary fiber in cooked and raw carrots

McClean BV, Codd R//Megazyme Aust Pty Ltd, 6 Altona Pl, N Rocks, Sydney, NSW 2151, Australia

J SCI FOOD AGR 1991, 55 (2) 303

Measurement of (1-3),(1-4)-beta-D-glucan in barley and oats - A streamlined enzymic procedure

Ohta T, Omori T, Shimojo H, Hashimoto K, Samuta T, Ohba T//Natl Res Inst Brewing, 2-6-30 Takinogawa, Kita ku, Tokyo 114, Japan

AGR BIOL CHEM TOKYO 1991, 55 (7) 1811

Identification of monoterpene alcohol beta-glucosides in sweet potatoes and purification of a shiro-koji beta-glucosidase

Bonvehi JS//Nutrexpa SA & Mielso SA, Dept Rech & Dev, Rue Lepanto 410-414, E-08025 Barcelona, Spain

SCI ALIMENT 1991, 11 (3) 547

Honey hydroxymethylfurfural content measured by high pressure liquid chromatography and UV spectrophotometric methods (French, English Abstract)

Gomis DB, Alvarez MDG, Naredo LS, Alonso JJM//Univ Oviedo, Fac Quim, Dept Quim Fis & Analit, Oviedo, Spain

CHROMATOGRAPHIA 1991, 32 (1-2) 45

High-performance liquid chromatographic determination of furfural and hydroxymethylfurfural in apple juices and concentrates

Manzoni M, Cavazzoni V//Univ Milan, Dipartimento Sci & Tecnol Alimentari & Microbiol, I-20133 Milan, Italy

FOOD SCI TECHNOL-LEBENSM WISS 1991, 24 (3) 236

Purification and characterization of the extracellular inulinase from Kluyveromyces cicerisporus

Doi T, Satoh K, Kanzaki M, Matsumoto K//Morinaga Milk Ind Co Ltd, Engr Res Ctr, 4-515 Tateno, Higashiyamato, Tokyo 189, Japan J JPN SOC FOOD SCI TECHNOL 1991, 38 (7) 575

An investigation to determine lactose by using oxidation-reduction reaction and its application to some kinds of milk and milk products

Mattusch J, Baran H, Schwedt G//Tech Univ Clausthal, Inst Inorgan & Analyt Chem, Paul Ernst Str 4, W-3392 Clausthal-Zellerfe, FRG

FRESENIUS J ANAL CHEM 1991, 340 (7) 426

HPLC/UV-spectrometric and electrochemical detection of lignin-decomposition products in alcoholic beverages

Raynal J, Mourguet J, Conte T//Ecole Natl Super Agron, 145 Ave de Muret, F-31076 Toulouse, France

FOOD SCI TECHNOL-LEBENSM WISS 1991, 24 (3) 263

Pectic substances from plum fruits (*Prunus domestica* L) cv-Dente - Fractional extraction and general characteristics

Schopplein E, Dietrich H//Forsch Anstalt Geisenheim, Fachgebiet Wein Anal & Getranke Forsch, von Lade Str 1, W-6222 Geisenheim, FRG

DEUT LEBENSM-RUND SCH 1991, 87 (7) 212

Characterization of polysaccharide degrading enzymes in a technical pectinase preparation (German, English Abstract)

Dongowski G, Kruse HP, Petrikka M, Bock W//Zent Inst Ernahrung, Arthur Scheunert Allee 114-116, D-1505 Bergholz, FRG

NAHRUNG 1991, 35 (5) 455

Studies on the composition of polysaccharide and dietary fibre of cocoa shells, residues of their extraction and extractive substances

Hoover R, Rorke SC, Martin AM//Mem Univ Newfoundland, Dept Biochem, St Johns, Newfoundland, Canada A1B 3X9

J FOOD BIOCHEM 1991, 15 (2) 117

Isolation and characterization of lima bean (*Phaseolus lunatus*) starch

## 5 LIPIDS

Zhang WB, Addis PB, Krick TP//Univ Minnesota, Dept Food Sci & Nutr, 1334 Eckles Ave, St Paul, Mn 55108, USA

J FOOD SCI 1991, 56 (3) 716

Quantification of 5alpha-cholestane-3beta,5,6beta-triol and other cholesterol oxidation products in fast food french fried potatoes

Fillion L, Zee JA\*, Gosselin C//Univ Laval, Fac Sci & Alimentat, Dept Nutr Humaine & Consommation, Quebec City, Quebec, Canada G1K 7P4

J CHROMATOGR 1991, 547 (1-2) 105

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzoylation

Guth H, Grosch W//Tech Univ Munich, Deutsch Forsch Anstalt Lebensmittelchem, Lichtenbergstr 4, W-8046 Garching, FRG

FETT WISS TECHNOL 1991, 93 (7) 249

Detection of furanoid fatty acids in soya-bean oil - Cause for the light-induced off-flavour

Petrzika M, Engst W, Macholz R//Zent Inst Ernahrung, Arthur Scheunert Allee 114-116, D-1505 Bergholz, FRG

NAHRUNG 1991, 35 (5) 491

Mass spectrometric structure analysis of fatty acid mixtures from biological material after capillary gas chromatographic separation

Tsuzuki W, Ogata Y, Akasaka K, Shibata S, Suzuki T//Minist Agr Forestry & Fisheries, Natl Food Res Inst, 2-1-1 Kannondai, Tsukuba, Iba-

- raki 305, Japan  
CEREAL CHEM 1991, 68 (4) 365  
Fatty acid composition of selected buckwheat species by fluorometric high-performance liquid chromatography
- Laane NCM, Haase KD, Ward JD // Unilever Res Labs Vlaardingen, Management Support & Communicat, POB 114, 3130 AC Vlaardingen, The Netherlands  
FETT WISS TECHNOL 1991, 93 (6) 204  
Isolation and partial identification of lactones from technical isostearic acid
- Hannan RM, Hill HH // Washington State Univ, USDA ARS, Reg Plant Introduct Stn, 59 Johnson Hall, Pullman, Wa 99164, USA  
J CHROMATOGR 1991, 547 (1-2) 393  
Analysis of lipids in aging seed using capillary supercritical fluid chromatography
- Koelsch CM, Downes TW, Labuza TP // Univ Minnesota, Dept Food Sci & Nutr, 1334 Eckles Ave, St Paul, Mn 55108, USA  
J FOOD SCI 1991, 56 (3) 816  
Hexanal formation via lipid oxidation as a function of oxygen concentration - Measurement and kinetics
- Winkler M, McCarthy MJ, German JB // Univ Calif Davis, Dept Food Sci & Technol, Davis, Ca 95616, USA  
J FOOD SCI 1991, 56 (3) 811  
Noninvasive measurement of lipid and water in food using magnetic resonance imaging
- Bruschweiler H, Dieffenbacher A // Swiss Ped Lab Mat Testing & Res, CH-9001 St Gallen, Switzerland  
PURE APPL CHEM 1991, 63 (8) 1156  
Determination of monoglycerides and diglycerides by capillary gas chromatography - Results of a collaborative study and the standardized method
- Bark LS, Hadipranoto N // Univ Salford, Dept Chem Appl Chem, Salford M5 4WT, England  
J THERM ANAL 1991, 37 (3) 645  
Enthalpimetric determination of the iodine value of some edible oils and fats
- Granata G, Lane RH // Univ Alabama, Dept Human Nutr & Hospital Management, Tuscaloosa, Al 35487, USA  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 692  
Crude oil content of selected oilseeds and flours - A comparison of solvents
- Hendrikse PW, Slikkerveer RJ, Folkersma A, Dieffenbacher A // Unilever Res Labs, Vlaardingen, The Netherlands  
PURE APPL CHEM 1991, 63 (8) 1184  
Determination of lead in oils and fats by direct graphite furnace atomic absorption spectrometry - Results of a collaborative study and the standardized method
- Hendrikse PW, Dieffenbacher A // Unilever Res Labs, Vlaardingen, The Netherlands  
PURE APPL CHEM 1991, 63 (8) 1192  
Determination of phosphorus in oils and fats by direct graphite furnace atomic absorption spectrometry - Results of a collaborative study and the standardized method
- Macku C, Shibamoto T // Univ Calif Davis, Dept Environm Toxicol, Davis, Ca 95616, USA  
J AGR FOOD CHEM 1991, 39 (7) 1265
- Headspace volatile compounds formed from heated corn oil and corn oil with glycine
- Mandal B, Maity CR // Dept Chem BN Mahayidyalaya, Itachuna 712147, W Bengal, India  
ACTA ALIMENT 1991, 20 (2) 103  
Studies of the oil of *Mimusops elengi* seed
- Mossoba MM, McDonald RE, Armstrong DJ, Page SW // US FDA, Div Contaminants Chem, Washington, DC 20204, USA  
J CHROMATOGR SCI 19981, 29 (8) 324  
Identification of minor C18 triene and conjugated diene isomers in hydrogenated soybean oil and margarine by GC-Mi-FT-IR spectroscopy
- Murthy MNK, Rajalakshmi S, Satyabodha JA, Nagaraja KV // Cent Food Technol Res Inst, Food Stand & Analyt Qual Control Lab, Mysore 570013, Karnataka, India  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 698  
A qualitative colorimetric test for brominated vegetable oil in soft drinks
- Nolasco SM, Wiese B, Quiroga O, Vigo MS // Univ Nacl Ctr Prov Buenos Aires, Fac Ingn, Av Valle 5737, RA-7400 Olavarria, Buenos Aires, Argentina  
AN ASOC QUIM ARGENT 1991, 79 (1) 15  
Characteristics and composition of *Centaurea calcitrapa* L and *Centaurea solstitialis* L seed oils (Spanish, English Abstract)
- Saez JJS, Garraleta MDH, Otero TB // Natl Ctr Food, Inst Hlth Carlos III, E-28220 Majadahonda, Spain  
ANAL CHEM ACTA 1991, 247 (2) 295  
Identification of cinnamic acid ethyl ester and 4-vinylphenol in off-flavour olive oils
- Wolff JP, Mordret FX, Dieffenbacher A // Inst Corps Gras, rue Monge, Parc Ind, F-33600 Pessac, France  
PURE APPL CHEM 1991, 63 (8) 1164  
Determination of polymerized triglycerides in oils and fats by high performance liquid chromatography - Results of a collaborative study and the standardized method
- Wolff JP, Mordret FX, Dieffenbacher A // Nestec Ltd, Cent Qual Assurance Lab, CH-1800 Vevey, Switzerland  
PURE APPL CHEM 1991, 63 (8) 1174  
Determination of triglycerides in vegetable oils in terms of their partition numbers by high performance liquid chromatography - Results of a collaborative study and the standardized method
- Yasuhsara A, Shibamoto T // Natl Inst Environm Studies, Div Reg Environm, 16-2 Onogawa, Yatabe, Ibaraki 305, Japan  
J CHROMATOGR 1991, 547 (1-2) 291  
Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol

## 6 VITAMINS & CO-FACTORS

- Zachariev G, Kiss I, Szabolcs J, Toth G, Molnar P, Matus Z // Cent Food Res Inst, POB 393, H-1525 Budapest, Hungary  
ACTA ALIMENT 1991, 20 (2) 115  
HPLC-analysis of carotenoids in irradiated and ethylene oxide treated red pepper

Kanno C, Shirahji K, Hoshi T // Utsunomiya Univ, Dept Anim Sci, Utsunomiya, Tochigi 321, Japan  
J FOOD SCI 1991, 56 (3) 678

Simple method for separate determination of 3 flavins in bovine milk by high performance liquid chromatography

## 7 MINERALS & TRACE ELEMENTS

Sitimizura S, Tee ES, Ooi HE//Inst Med Res, Div Human Nutr, Kuala Lumpur 50588, Malaysia

J SCI FOOD AGR 1991, 55 (2) 261

Determination of boric acid in foods - Comparative study of 3 methods

Cardwell TJ, Cattrall RW, Mrzljak RI, Sweeney T, Robins LM, Scolary GR\*//Univ Melbourne, Sch Sci & Math, Inst Educ, Parkville, Vic 3052, Australia

ELECTROANAL 1991, 3 (6) 573

Determination of ionized and total calcium in white wine using a calcium ion-selective electrode

Orcutt A, Kane P, Imboden S//Purdue Univ, Dept Biochem, W Lafayette, In 47907, USA

J ASSN OFFIC ANAL CHEM 1991, 74 (4) 619

Comparison of the TRAACS 800 with AOAC methods for calcium and phosphorus in feeds

Ruiz TP, Cordoba MH, Gonzalez RO//Univ Murcia, Fac Sci, Dept Analyt Chem, Murcia, Spain

J ASSN OFFIC ANAL CHEM 1991, 74 (4) 625

A rapid method for the determination of chlorine, phosphorus, and sulfur in flours of grains and légumes using wavelength dispersive X-ray fluorescence spectrophotometry

Koops J, Klomp H//NIZO, POB 20, 6710 BA Ede, The Netherlands

NETH MILK DAIRY J 1991, 45 (2) 127

Cobalt in Dutch milk powder - Determination by differential-pulse adsorptive cathodic-stripping voltammetry

Bradbury JH, Egan SV, Lynch MJ//Australian Natl Univ, Dept Bot, Canberra, ACT 2601, Australia

J SCI FOOD AGR 1991, 55 (2) 277

Analysis of cyanide in cassava using acid hydrolysis of cyanogenic glucosides

Suzuki S, Katsuragi N, Hirai S//Musashi Inst Technol, Atom Energy Res Kab, 971 Ohzenji, Asao Ku, Kawasaki, Kanagawa 215, Japan

BUNSEKI KAGAKU 1991, 40 (8) 421

Multielement determination in fish tissue reference material by instrumental neutron activation analysis (Japanese, English Abstract)

Kostadinova LS, Elenkova NG, Nedelcheva TK//Higher Inst Chem Technol, BU-1156 Sofia, Bulgaria

J ANAL CHEM USSR-ENGL TR 1990, 45 (11) 1600

Extraction-photometric determination of fluoride in phosphoric acid and forage phosphates

Hergenreder RI//Perkin Elmer Corp, 14818 W 6th Ave, Suite 6, Golden, Co 80401, USA

AT SPECTROSC 1991, 12 (3) 74

Determination of iron in beer by flow injection-flame atomic absorption spectroscopy

Lee YS, Homma S//Ochanomizu Univ, Dept Nutr & Food Sci, Ohtsuka 2-1-1, Bunkyo ku, Tokyo 112, Japan

J JPN SOC FOOD SCI TECHNOL 1991, 38 (6) 556

Desalting by electrodialysis to measure iron chelating activity of melanoidin in soy sauce and fish sauce (Japanese, English Abstract)

Wang H//Hebei Univ, Dept Chem, Baoding 071002, Peoples R China

AT SPECTROSC 1991, 12 (3) 87

Determination of lead in egg white and egg yolk by Zeeman atomic absorption spectrometry

Masłowska J, Leszczynska J//Tech Univ Lodz, Bioinorgan & Analyt Chem Grp, Stefanowskiego 4-10, PL-90924 Lodz, Poland

DEUT LEBENSM-RUNDSCHE 1991, 87 (7) 220

A new enzymatic method for the determination of Mg(II) in drinking waters and soft drinks with the use of isocitrate dehydrogenase

Al-Hashimi AH, Al-Zorba MA//Coll Hlth Sci, Dept Environm Hlth, POB 33496, Rawdha 73455, Kuwait

SCI TOTAL ENVIR 1991, 106 (1-2) 71

Mercury in some commercial fish from Kuwait - A pilot study

Schwendt G//Tech Univ Clausthal, Inst Anorgan & Analyt Chem, Paul Ernst Str 4, W-3391 Clausthal Zellerfe, FRG

DEUT LEBENSM-RUNDSCHE 1991, 87 (7) 223

A compound method comprising calorimetry and ion chromatography for use in calorific-value and mineral-contents analyses in foodstuffs (German, English Abstract)

Schaper M, Mehnert W, Gromes R//Tech Univ Berlin, W-1000 Berlin 12, FRG

MONATSSCHR BRAUWISSEN 1991, 44 (7-8) 260

Comparable tests for determining nitrate in brewery raw materials and products

Saito S, Miki T, Ito H, Kamoda M, Ito M//Japan Sugar Refiners Assoc, 5-7 Sambancho, Chiyoda ku, Tokyo 102, Japan

BUNSEKI KAGAKU 1991, 40 (6) 289

Determination of Na<sup>+</sup>, K<sup>+</sup> and (NH4)<sup>+</sup> in various foods by ion chromatography (Japanese, English Abstract)

Liu SM, Chung C, Chuang JT, Wang CF, Aras NK//Natl Tsing Hua Univ, Inst Nucl Sci, Hsinchu 30043, Taiwan

J RADIOANAL NUCL CHEM ART 1991, 150 (2) 397

Daily dietary intake of minor and trace elements by upper social groups in Taiwan

von Piechowski K, Massop K, Pyrlik H, Stickers K//Address not available

ALIMENTA 1991, 30 (4) 63

Analysis of trace elements in oil and fat processing by ICP-AES (inductively coupled plasma emission spectrometry) (German, English Abstract)

## 8 DRUG, BIOCIDES & CHEMICAL RESIDUES

Wilson DJ, Franti CE, Norman BB\*//Univ Calif Davis, Sch Vet Med, Vet Extens Unit, Davis, Ca 95616, USA

AMER J VET RES 1991, 52 (8) 1383

Antibiotic and sulfonamide agents in bob veal calf muscle, liver and kidney

Wilson DJ, Franti CE, Norman BB\*//Univ Calif Davis, Sch Vet Med, Vet Extens Unit, Davis, Ca 95616, USA

J AMER VET MED ASSN 1991, 199 (3) 341

Antibiotic and sulfonamide residues from food safety inspection service bob veal calf tissues by region, from October 1987 to September 1988

Toba T, Samant SK, Itoh T//Tohoku Univ, Fac Agr, Anim Prod Chem Lab, 1-1 Tsutsumidori amamiyamachi, Aoba ku, Sendai 981, Japan

- LETT APPL MICROBIOL 1991, 13 (2) 102  
Assay system for detecting bacteriocin in microdilution wells
- Wei LY//Illinois Nat Hist Survey, Ctr Econ Entomol, Champaign, IL 61820, USA  
PESTIC SCI 1991, 32 (2) 141  
Determination of bifenthrin in pumpkins by gas chromatography and mass spectrometry
- Hashimoto S, Otsuki A//Tokyo Univ Fisheries, Dept Marine Sci & Technol, 4-5-7 Konan, Minato ku, Tokyo 108, Japan  
HRC-J HIGH RES CHROMATOGR 1991, 14 (6) 397  
Determination of mono-substituted, di-substituted butyltin, phenyltin and methyltin compounds as free halides using gas chromatography with flame photometric detection
- Jiang GB, Maxwell PS, Siu KWM\*, Luong VT, Berman SS//Nat Res Council Canada, Inst Environ Chem, Montreal Rd, Ottawa, Ontario, Canada K1A 0R9  
ANAL CHEM 1991, 63 (15) 1506  
Determination of butyltins in mussel by gas chromatography with flame photometric detection using quartz surface-induced luminescence
- Bagheri H, Creaser CS\*//Univ E Anglia, Sch Chem Sci, Norwich NR4 7TJ, England  
J CHROMATOGR 1991, 547 (1-2) 345  
Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas chromatography fluorescence spectrometry
- Lynch MJ, Mosher FR, Schneider RP, Fouda HG, Risk JE//Pfizer Inc, Div Cent Res, Dept Drug Metab, Groton, Ct 06340, USA  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 611  
Determination of carbadox-related residues in swine liver by gas chromatography mass spectrometry with ion trap detection
- Faughrnan KT, Woodruff MA//Best Foods Res & Engn Ctr, Analyt Res Lab, 1120 Commerce Ave, Union, NJ 07083, USA  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 682  
Modified gas chromatographic-mass spectrometric method for determination of daminocide in high protein food products
- Liu WP, Chen ZW, Xu HQ, Shi YY, Chen YZ//Univ Sassari, Ist Chim Agr, via E De Nicola 10, I-07100 Sassari, Italy  
J CHROMATOGR 1991, 547 (1-2) 509  
Determination of diclofop-methyl and diclofop residues in soil and crops by gas chromatography
- Hormazabal V, Rogstad A\*, Steffenak I, Yndestad M//Apothekernes Lab, POB 158 Skøyen, N-0212 Oslo 2, Norway  
J LIQ CHROMATOGR 1991, 14 (8) 1605  
Rapid assay for monitoring residues of enrofloxacin and sarafloxacin in fish tissues by high performance liquid chromatography
- Daft JL//US FDA, Dept H & Human Serv, Kansas City Dist Off, 1009 Cherry St, Kansas City, Mo 64106, USA  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 575  
Fumigation trends, fumigant analysis, and findings
- Hoogenboom LAP, Van Kammen M, Berghmans MCJ, Koeman JH, Kuiper HA//State Inst Qual Control Agr Prod, Bornseeteg 45, 6708 PD Wageningen, The Netherlands  
FOOD CHEM TOXICOL 1991, 29 (5) 321  
The use of pig hepatocytes to study the nature of protein-bound metabolites of furazolidone - A new analytical method for their detection
- Johnson BR//Calif Dept Food & Agr Environ Monitoring & Pest Management, 1220 N St, Rm A-149, Sacramento, Ca 95814, USA  
BULL ENVIRON CONTAM TOXICOL 1991, 47 (2) 244  
A simple adsorption dilution model for rice herbicides
- Newsome WH, Collins PG//Hlth & Wlf Canada, Food Directorate, Bur Chem Safety, Div Food Res, Ross Ave, Ottawa, Ontario, Canada K1A 0L2  
BULL ENVIRON CONTAM TOXICOL 1991, 47 (2) 211  
Determination of imazamethabenz in cereal grain by enzyme-linked immunosorbent assay
- Larocque L, Schnurr M, Sved S\*, Weninger A//Hlth & Wlf Canada, Bur Drug Res, Drug Residues Sect, Ottawa, Ontario, Canada K1A 0L2  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 608  
Determination of oxolinic acid residues in salmon muscle tissue by liquid chromatography with fluorescence detection
- Anderson JW//NSI Technol Serv Inc, Robert S Kerr Environm Res Lab, POB 1198, Ada, Ok 74820, USA  
HRC-J HIGH RES CHROMATOGR 1991, 14 (6) 369  
Determination of congeners of polychlorinated biphenyls in reference materials
- Voyksner RD, Tyczkowska KL, Aronson AL//Res Triangle Inst, POB 12194, Res Triangle Pk, NC 27709, USA  
J CHROMATOGR-BIOMED APPL 1991, 567 (2) 389  
Development of analytical methods of some penicillins in bovine milk by ion-paired chromatography and confirmation by thermospray mass spectrometry
- Hopper ML, King JW//US FDA, Total Diet Res Ctr, 1009 Cherry St, Kansas City, Mo 64106, USA  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 661  
Enhanced supercritical fluid carbon dioxide extraction of pesticides from foods using pelletized diatomaceous earth
- Long AR, Crouch MD, Barker SA\*//Louisiana State Univ, Sch Vet Med, Dept Vet Physiol Pharmacol & Toxicol, Baton Rouge, La 70803, USA  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 667  
Multiresidue matrix solid phase dispersion (MSPD) extraction and gas chromatographic screening of 9 chlorinated pesticides in catfish (*Ictalurus punctatus*) muscle tissue
- Tekel J, Schultzova K, Farkas P, Kovacicova J, Brandsteterova E//Food Res Inst, POB 25, CS-82006 Bratislava 26, Czechoslovakia  
HRC-J HIGH RES CHROMATOGR 1991, 14 (6) 423  
Analysis of phenylurea herbicides by capillary GC and NPD detection
- De Groot J, De Groot JM\*, Debukanski BW, Beernaert H//Minist Sante Publ & Environnement, 14 rue J Wytsman, B-1050 Brussels, Belgium  
Z LEBENSMITTEL-UNTERSUCH FORS 1991, 193 (2) 126  
Salbutamol identification in liver and urine by high-performance thin-layer chromatography and densitometry
- Steffenak I, Hormazabal V, Yndestad M//Norwegian Coll Vet Med, Dept Food Hyg, POB 8146 Dept, N-0033 Oslo 1, Norway  
J LIQ CHROMATOGR 1991, 14 (10) 1983  
A rapid assay for the determination of sarafloxacin (A-55620) in fish serum by high performance liquid chromatography
- Dierens JM, Renaud-Bezot C, Savoy-Perroud MC//Nestec Ltd, Dept Qual Assurance, Av Nestle 55, CH-1800 Vevey, Switzerland

**DEUT LEBENSM-RUNDSCH** 1991, 87 (7) 205

Simplified determination of sulfonamides residues in milk, meat and eggs

Debukanek BW, De Groot JM, Beernaert H//Minist Sante Publ & Environment, 14 rue J Wytsman, B-1050 Brussels, Belgium

**Z LEBENSMITTEL-UNTERSUCH FORS** 1991, 193 (2) 130

Determination of thiabendazole residues in meat by HPLC using ultraviolet and fluorometric detection

Nagata T, Saeki M, Iida T, Kataoka M, Shikano S//Publ Hith Lab Chiba Prefecture, 666-2 Nitona cho, Chiba 280, Japan

**BRIT VET J** 1991, 147 (4) 346

High performance liquid chromatographic determination of trimethoprim residues in egg yolk and albumen in a feeding experiment

## 9 TOXINS

Casas J, Messeguer A//CSIC, CID, Dept Biol Organ Chem, J Girona 18, E-08034 Barcelona, Spain

**J LABEL COMPOUND RADIOPHARM** 1991, 29 (7) 847

An improved synthesis of labelled fatty acid carboxamides - N-phenyl[9,10(n)-<sup>3</sup>H] oleamide and N-[ring-G-<sup>13</sup>C(6)] phenyloleamide as standards for Spanish toxic oil syndrome studies

Bonde M, Frokier H, Pepper DS//Tech Univ Denmark, Dept Biochem & Nutr, Bldg 224, DK-2800 Lyngby, Denmark

**J BIOCHEM BIOPHYS METH** 1991, 23 (1) 73

Selection of monoclonal antibodies for immunoaffinity chromatography - Model studies with antibodies against soy bean trypsin inhibitor

Vasconcelos IM, Cavada BS, Moreira RD, de Oliveira JTA\*//Univ Fed Ceara, Ctr Ciencias, Dept Bioquim & Biol Molec, Caixa Postal 1065, BR-60001 Fortaleza, Ceara, Brazil

**J FOOD BIOCHEM** 1991, 15 (2) 137

Purification and partial characterization of a lectin from the seeds of Dioclea guianensis

Yu JY, Fun SC\*//Univ Wisconsin, Food Res Inst, Madison, Wi 53706, USA

**J ASSN OFFIC ANAL CHEM** 1991, 74 (4) 655

Immunochromatography of fusarochromanone mycotoxins

Henning K, Meyer H, Cremer J//Sanit Akad Bundeswehr, Inst Mikrobiol, Neuherbergstr 11, W-8000 Munich 45, FRG

**ARCH LEBENSM-HYG** 1991, 42 (3) 69

Rapid detection of Clostridium botulinum toxins-A and toxins-B using an enzyme immunoassay (ELISA) (German, English Abstract)

Solomon HM, Kautter DA, Rhodehamel EJ, Lilly T//US FDA, Div Microbiol, Washington, DC 20204, USA

**J FOOD PROTECT** 1991, 54 (8) 648

Evaluation of unacidified products bottled in oil for outgrowth and toxin production by Clostridium botulinum

Stabell OB, Steffenak I, Pedersen K, Underdal B//Ctr Vet Med, Box 3065 Guleng, N-9001 Tromso, Norway

**J TOXICOL ENVIRON HEALTH** 1991, 33 (3) 273

Diversity of shellfish toxins of diarrhetic type revealed by biological and chemical assays

## 10 ADDITIVES

Ashkenazi P, Yarnitzky C, Cais M//Technion Israel Inst Technol, Dept Chem, IL-32000 Haifa, Israel

**ANAL CHIM ACTA** 1991, 248 (1) 289

Determination of synthetic food colours by means of a novel sample preparation system

Saito K//Hokkaido Tokai Univ Sch Engn, Dept Biosci & Technol, Sapporo 005, Japan

**Z LEBENSMITTEL-UNTERSUCH FORS** 1991, 193 (2) 134

New diagnostic spray reagents for detecting precarthamin in aqueous extracts from dyers saffron flowers

Karovicova J, Polonsky J, Simko P//Slovak Tech Univ, Fac Chem Technol, Radlinskeho 9, CS-81237 Bratislava, Czechoslovakia

**NAHRUNG** 1991, 35 (5) 543

Determination of preservatives in some food products by capillary isotachophoresis

Campos C, Gerschenson LN, Alzamora SM, Chirife J//Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Ind, RA-1428 Buenos Aires, Argentina

**J FOOD SCI** 1991, 56 (3) 863

Determination of sorbic acid in raw beef - An improved procedure

## 11 FLAVOURS & AROMAS

Nielsen TJ, Jagerstad IM, Oste RE, Sivik BTG//Ctr Chem, Dept Appl Nutr & Food Chem, POB 124, S-22100 Lund, Sweden

**J AGR FOOD CHEM** 1991, 39 (7) 1234

Supercritical fluid extraction coupled with gas chromatography for the analysis of aroma compounds absorbed by low-density polyethylene

Aishima T, Nakai S//Noda Inst Sci Res, Noda, Chiba 278, Japan

**ANAL CHIM ACTA** 1991, 248 (1) 41

Deconvolution of gas chromatographic profiles for multicomponent model mixtures and essential oils by the simplex algorithm

Koehler PE, Kays SJ//Univ George, Dept Food Sci, Athens, Ga 30602, USA

**J FOOD QUAL** 1991, 14 (3) 241

Sweet potato flavor - Quantitative and qualitative assessment of optimum sweetness

Bruche G, Schmarr HG, Bauer A, Mosandl A\*, Rapp A, Engel L//\*Univ Frankfurt, Inst Lebensmittelchem, Robert Mayer Str 7-9, W-6000 Frankfurt, FRG

**Z LEBENSMITTEL-UNTERSUCH FORS** 1991, 193 (2) 115

Stereoisomeric flavour compounds. LI - Enantioselective CGC-analysis and origin assignment of chiral furanones - Scope and limitations (German, English Abstract)

Aitzetmuller K, Konker S//Fette Bundesanstalt Getreide Kartoffe & Fettforsch, Inst Chem & Phys, Piusallee 76, W-4400 Munster, FRG

**FETT WISS TECHNOL** 1991, 93 (7) 256

Ways to detect heat exposure of rapeseed in relation to glucosinolate determination (German, English Abstract)

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

**FETT WISS TECHNOL** 1991, 93 (7) 264

Desulphation of glucosinolates - Potential pitfalls of the HPLC method for double zero (German, English Abstract)

Hashimoto T, Tatokoro Y//Ibaraki Prefectural Ind Technol Ctr, 3781 Nagaoka ibaraki machi, Higashi ibaraki, Ibaraki 31131, Japan

**J JPN SOC FOOD SCI TECHNOL** 1991, 38 (6) 494

Analysis of hydroxycinnamic acids in salted daikon (*Raphanus sativus* L) roots (Japanese, English Abstract)

Sugawara E//Iwate Univ, Fac Educ, Morioka, Iwate 020, Japan  
 J JPN SOC FOOD SCI TECHNOL 1991, 38 (6) 491  
 Identification of 4-hydroxy-2 (or 5)-ethyl-5 (or 2)-methyl-3 (<sup>2</sup>H)-furanone as a flavor component in miso (Japanese, English Abstract)

Narziss L, Miedaner H, Koch M//Lehrstuhl Technol Brauerei 1, W-8050 Friesing, FRG  
 MONATSSCHR BRAUWISSEN 1991, 44 (7-8) 268  
 Tests on volatile substances in malt and beer production taking into particular consideration such substances produced when the product is subjected to thermal stress. 3. Influences of wort boiling and the pasteurization and storage of beer

Tabera J, Reglero G, Herranz M, Blanch GP//CSIC, Inst Fermentac Ind, C-Juan Cierva 3, E-28006 Madrid, Spain  
 HRC-J HIGH RES CHROMATOGR 1991, 14 (6) 392  
 Optimization of dynamic headspace sampling for the analysis of trace volatile components of grape juice - Use of a PTV injector for intermediate trapping

Ulberth F//Agr Univ Vienna, Dept Dairy Res & Bacteriol, Gregor Mendel Str 33, A-1180 Vienna, Austria  
 J ASSN OFFIC ANAL CHEM 1991, 74 (4) 630  
 Headspace gas chromatographic estimation of some yogurt volatiles

## 13 ANIMAL PRODUCTS

Berg H, Kolar K//Swedish Meat Res Inst, POB 504, S-24424 Kavlinge, Sweden  
 FLEISCHWIRTSCHAFT 1991, 71 (7) 765  
 Evaluation of rapid moisture, fat, protein and hydroxyproline determination in beef and pork using the Infratec food and feed analyzer

Dunn ML, Ogden LV//30 Davidson Rd, Aurora, Ontario, Canada L4G 2B1  
 J DAIRY SCI 1991, 74 (7) 2042  
 Method of identifying the batch of origin in semi-continuous cheese making processes

Durance TD//Univ British Columbia, Dept Food Sci, 6650 NW Marine Dr, Vancouver, BC, Canada V6T 1W5  
 J FOOD SCI 1991, 56 (3) 707  
 Residual avidin activity in cooked egg white assayed with improved sensitivity

Chiba A, Hamaguchi M, Kosaka M, Tokuno T, Asai T, Chichibu S// Kinki Univ, Sch Med, Dept Physiol, Sayama, Osaka 589, Japan  
 J FOOD SCI 1991, 56 (3) 660  
 Quality evaluation of fish meat by <sup>31</sup>P-nuclear magnetic resonance

Ukeda H, Matsumoto K, Katsuki I, Osajima Y//Kyushu Univ, Fac Agr, Dept Food Sci & Technol, Fukuoka 812, Japan  
 NIPPON NOGEIKAGAKU KAISHI 1991, 65 (8) 33  
 A simple method for monitoring the enzymatic hydrolysis of fish meat - Determination of amino groups using glutaraldehyde

Ball HJ, Finlay D, Mackie DP, Greer D, Pollock D, McNair J//Vet Res Labs, Belfast BT4 3SD, North Ireland  
 J CLIN MICROBIOL 1991, 29 (8) 1625

Application of a monoclonal antibody-based enzyme-linked immunosorbent assay for detection of an inflammatory response antigen in subclinical mastitic milk samples

Cavani C, Bianconi L, Manfredini M\*, Rizzi L, Zarri MC//Ist Approvigionamenti Annonari Mercati & Ind Alimenti Origine Anim, I-40126 Bologna, Italy

SMALL RUMINANT RES 1991, 5 (3) 273  
 Effects of a complete diet on the qualitative characteristics of ewe milk and cheese

Cullor JS, Jie C//Univ Calif Davis, Sch Vet Med, Dept Vet Pathol, Davis, Ca 95616, USA  
 VET MED-US 1991, 86 (8) 845  
 Evaluating 2 new OTC milk screening ELISAs - Do they measure up?

Deharveng G, Nielsen SS//Purdue Univ, Dept Food Sci, W Lafayette, In 47907, USA  
 J DAIRY SCI 1991, 74 (7) 2060  
 Partial purification and characterization of native plasminogen activators from bovine milk

Doi T, Kanzaki M, Shibuya M, Matsumoto K//Morinaga Milk Ind Co Ltd, Engr Res Ctr, 4-515 Tateno, Higashiyamato, Tokyo 189, Japan  
 J JPN SOC FOOD SCI TECHNOL 1991, 38 (7) 601  
 A trial to detect off-flavor of raw milk with semiconductor gas sensors

Fritsche R, Bonzon M//Nestec Inc, Nestle Res Ctr, Vers Chez Les Blanc, CH-1000 Lausanne 26, Switzerland  
 INT ARCH ALLERGY APPL IMMUNOL 1990, 93 (4) 289  
 Determination of cow milk formula allergenicity in the rat model by in vitro mast cell triggering and in vivo IgE induction

Gennaro MC, Abrigo C//Univ Turin, Dipartimento Chim Analit, via P Giuria 5, I-10125 Turin, Italy  
 FRESENIUS J ANAL CHEM 1991, 340 (7) 422  
 Simultaneous determination of creatinine, uric, L(+)-ascorbic and orotic acids in milk by reversed-phase ion-interaction HPLC chromatography

Roskopf R, Rainer H, Giesecke D//Univ Munich, Fak Tierarztl, Inst Physiol Physiol Chem & Ernahrungsphysiol, Veterinarstr 13, W-8000 Munich 22, FRG  
 ARCH TIERERNAHR 1991, 41 (4) 411  
 Purine and pyrimidine metabolites for the evaluation of rumen metabolism - HPLC analysis in milk and blood plasma

Favretto L, Favretto LG, Ceccon L, Vojnovic D//Univ Trieste, Dipartimento Econ & Merceol Risorse Nat & Prod, via A Valerio 6, I-34127 Trieste, Italy  
 ANAL CHIM ACTA 1991, 248 (1) 51  
 Differentiation of wild oysters from 3 sites by chemometric procedures

## 14 PLANT & MICROBIAL PRODUCTS

Davies NL//Brewing Ind Res Fdn, Lyttel Hall, Redhill RH1 4HY, Surrey, England  
 J CEREAL SCI 1991, 14 (1) 85  
 Use of X-ray microanalysis to study hydration patterns in barley

Wood KV, Stringham KJ, Smith DL, Volenec JJ, Hendershot KL, Jackson KA, Rich PJ, Yang WJ, Rhodes, D\*//Purdue Univ, Dept Chem, W Lafayette, In 47907, USA  
 PLANT PHYSIOL 1991, 96 (3) 892  
 Betaines of alfalfa - Characterization by fast atom bombardment and desorption chemical ionization mass spectrometry

Marques JPM, Rutledge DN, Ducauze CJ//INRA, Chim Analyt Lab, 16 rue Claude Bernard, F-75231 Paris 05, France  
 SCI ALIMENT 1991, 11 (3) 513  
 Low resolution pulse nuclear magnetic resonance study of carrots equilibrated at various water activities and temperatures (French, English Abstract)

- Nolasco SM, Quiroga O, Vigo MS//Univ Nacl Ctr Prov Buenos Aires, Fac Ingn, Av Valle 5737, RA-7400 Olavarria, Buenos Aires, Argentina  
AN ASOC QUIM ARGENT 1991, 79 (1) 53
- Studies on seeds of *Centaurea calcitrapa* L and *Centaurea solstitialis* L composition of the seed meals (Spanish, English Abstract)
- Huston CK, Hong J//Varian Chromatog Syst, 2700 Mitchell Dr, Walnut Creek, Ca 94598, USA  
J AGR FOOD CHEM 1991, 39 (7) 1229
- Optimization of the analytical supercritical fluid extraction of cloves via an on-column interface to an ion trap GC/MS system
- Brookes ST, Barrie A, Davies JE//Europa Sci Ltd, Europa House, Electra Way, Crewe CW1 1ZA, England  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 627
- A rapid  $^{13}\text{C}/^{12}\text{C}$  test for determination of corn syrups in honey
- Gaydou EM, Berahia T, Wallet JC, Bianchini JP//Fac Sci & Tech St Jerome, Lab Phytochim Marseille, Ave Escadrille, Normandie Niemen, F-13397 Marseille 13, France  
J CHROMATOGR 1991, 549 (1-2) 440
- Gas chromatography of some polymethoxylated flavones and their determination in orange peel oils
- Krause M, Galensa R //Tech Univ Braunschweig, Inst Lebensmittel-chem, Schleinitzstr 20, W-3300 Braunschweig, FRG  
CHROMATOGRAPHIA 1991, 32 (1-2) 69
- Analysis of enantiomeric flavanones in plant extracts by high-performance liquid chromatography on a cellulose triacetate based chiral stationary phase
- Ogbeide ON, Parvez M//Univ Benin, Dept Chem, PMB 1154, Benin City, Nigeria  
PLANT FOOD HUM NUTR 1991, 41 (3) 233
- A simple colorimetric quantification of flavonoids in the flowers of *Lonchocarpus cyanescens* genus - *Lonchocarpus*
- Linn JG, Martin NP//Univ Minnesota, Dept Anim Sci, 101 Haecker Hall, 1364 Eckles Ave, St Paul, Mn 55108, USA  
VET CLIN N AMER-FOOD ANIM PR 1991, 7 (2) 509
- Forage quality analyses and interpretation
- Reeves JB, Blosser TH, Balde AT, Glenn BP, Vandersall J//USDA ARS, Beltsville Agr Res Ctr, Inst Livestock & Poultry Sci, Ruminant Nutr Lab, Beltsville, Md 20705, USA  
J DAIRY SCI 1991, 74 (8) 2664
- Near infrared spectroscopic analysis of forage samples digested in situ (nylon bag)
- Tono T//Saga Univ, Fac Agr, Dept Food Resource Sci, Saga 840, Japan  
J JPN SOC FOOD SCI TECHNOL 1991, 38 (6) 563
- Analysis of enzymatic browning related substances in fruits - Application of difference spectra spectrophotometry (Japanese, English Abstract)
- Estevez AM, Castillo E, Figuerola F, Yanez E//Univ Chile, Fac Ciencias Agarias & Forestales, Dept Agroind & Tecnol, Alimentos, Santiago, Chile  
PLANT FOOD HUM NUTR 1991, 41 (3) 193
- Effect of processing on some chemical and nutritional characteristics of pre-cooked and dehydrated legumes
- Zhang QH, Cavalieri RP, Powers JR, Wu JR//Washington State Univ, Coll Agr, Pullman, Wa 99164, USA  
J FOOD SCI 1991, 56 (3) 719
- Measurement of lipoxygenase activity in homogenized green bean tissue
- Clark DH, Lamb RC//US Geol Survey, Denver Fed Ctr, Div Water Resources, MS 415, Box 25046, Denver, Co 80225, USA  
J DAIRY SCI 1991, 74 (7) 2200
- Near infrared reflectance spectroscopy - A survey of wavelength selection to determine dry matter digestibility
- Irving DW, Peake JL, Breda VA//USDA, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA  
CEREAL CHEM 1991, 68 (4) 376
- Nutrient distribution in 5 perennial grain species exhibited by light and scanning electron microscopy
- Collins JL, Ebah CB, Mount JR, Draughon FA, Demott BJ//Univ Tennessee, Dept Food Sci & Technol, Agr Expt Stn, Knoxville, Tn 37996, USA  
J FOOD SCI 1991, 56 (3) 682
- Proximate, nutritional and microbiological analyses of milk-sweet potato mixtures fermented with yogurt bacteria
- Collins JL, Ebah CB, Mount JR, Demott BJ, Draughon FA//Univ Tennessee, Dept Food Sci & Technol, Agr Expt Stn, Knoxville, Tn 37996, USA  
J FOOD SCI 1991, 56 (3) 685
- Production and evaluation of milk-sweet potato mixtures fermented with yogurt bacteria
- Lookhart GL, Juliano BO, Webb BD//USDA ARS, N Cent Reg, US Grain Mkt Res Lab, 1515 Coll Ave, Manhattan, Ks 66502, USA  
CEREAL CHEM 1991, 68 (4) 396
- Effect of solvent extraction, environment, and genetic background on differentiating rice by reversed-phase high-performance liquid chromatography
- Berding N, Brotherton GA, Lebrocq DG, Skinner JC//Meringa Sugar Expt Stn, POB 122, Gordonvale, Qld 4865, Australia  
CROP SCI 1991, 31 (4) 1017
- Near infrared reflectance spectroscopy for analysis of sugarcane from clonal evaluation trials. 1. Fibrated cane
- Berding N, Brotherton GA, Lebrocq DG, Skinner JC//Meringa Sugar Expt Stn, POB 122, Gordonvale, Qld 4865, Australia  
CROP SCI 1991, 31 (4) 1024
- Near infrared reflectance spectroscopy for analysis of sugarcane from clonal evaluation trials. 2. Expressed juice
- Westerlund E, Andersson R, Hamalainen M, Aman P//Swedish Univ Agr Sci, Dept Chem, Box 7015, S-75007 Uppsala, Sweden  
J CEREAL SCI 1991, 14 (1) 95
- Principal component analysis - An efficient tool for selection of wheat samples with wide variation in properties
- Ibe A, Saito K, Nakazato M, Kikuchi Y, Fujinuma K, Nishima T//Tokyo Metropolitan Res Lab Publ Hlth, Dept Food Hyg & Nutr, 24-1 Hyakunin cho 3 chome, Shinjuku ku, Tokyo 169, Japan  
J ASSN OFFIC ANAL CHEM 1991, 74 (4) 695
- Quantitative determination of amines in wine by liquid chromatography