



# Bibliography on analytical food chemistry

## 1 BOOKS, REVIEWS & SYMPOSIA

Risch SJ, Hotchkis JH (Eds)

Food and Packaging Interactions II (ACS Symposium Series, Vol 473)  
Symp at the 200th National Meeting of the American Chemical Soc,  
Washington, DC, August 1990

Contains several analytical papers

Amer Chemical Soc (Washington), 1991, 262pp, \$59.95 Hardbound,  
ISBN: 0-8412-2122-7

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Gomis DB, Lobo AMP, Alonso JM, Alvarez MDG//Univ Oviedo,  
Dept Quim Fis & Analit, E-33006 Oviedo, Spain

Z LEBENSMITTEL-UNTERSUCH FORS 1992, 194 (2) 134

Determination of amino acids in ripening apples by high-performance  
liquid chromatography

Tanty AM, Brelle JL//Sochal, F-15400 St Etienne Chomei, France  
LAIT 1992, 72 (1) 103

Determination of chymosin and bovine pepsin in rennets - Simplification  
of the IDF normalized method (French, English Abstract)

Kawka A, Ng PKW, Bushuk W//Univ Agr, Inst Food Technol, Wojska  
Polskiego 31, PL-60624 Poznan, Poland

CEREAL CHEM 1992, 69 (1) 92

Equivalence of high molecular weight glutenin subunits prepared by  
reversed-phase high-performance liquid chromatography and sodium  
dodecyl sulfate-polyacrylamide gel electrophoresis

Dalgalarondo M, Dufour E, Bertrand-Harb C, Chobert JM, Haertle  
T//INRA, Etude Interact Molec Alimentaires Lab, BP 527, F-44026  
Nantes 03, France

LAIT 1992, 72 (1) 35

Purification and characterization of 2 porcine beta-lactoglobulin variants  
by NaCl salting-out and reversed phase-HPLC

Tsuge H, Ago H, Noma M, Nitta K, Sugai S, Miyano M//Japan Tobacco  
Inc, Life Sci Res Lab, 6-2 Umegaoka, Midori ku, Yokohama, Kanagawa  
227, Japan

J BIOCHEM TOKYO 1992, 111 (2) 141

Crystallographic studies of a calcium binding lysozyme from equine  
milk at 2.5 Å resolution

Prieto JA, Collar C, Debarber CB\*//CSIC, Inst Agroquim & Technol  
Alimentos, Cereales Lab, Jaime Roig II, E-46010 Valencia, Spain

J LIQ CHROMATOGR 1992, 15 (2) 351

Low molecular weight peptides of bread dough and bread - Dynamics  
during fermentation and baking

Peterson RE, Wolf WJ//USDA ARS, Natl Ctr Agr Utilizat Res, 1815  
N Univ St, Peoria, IL 61604, USA

CEREAL CHEM 1992, 69 (1) 101

Enhancement of high-performance liquid chromatography of soybean  
proteins by addition of sodium dodecyl sulfate

Ravindran G//Univ Peradeniya, Dept Food Sci & Technol, Peradeniya,  
Sri Lanka

FOOD CHEM 1992, 44 (1) 13

Seed protein of millets: Amino acid composition, proteinase inhibitors  
and in-vitro protein digestibility

## 4 CARBOHYDRATES

Olano A, Santa-Maria G, Corzo N, Calvo MM, Martinez-Castro I,  
Jimeno ML//Inst Ferment Ind (CSIC), Juan de la Cierva 3, E-28006  
Madrid, Spain

FOOD CHEM 1992, 43 (5) 351

Determination of free carbohydrates and Amadori compounds formed  
at the early stages of non-enzymic browning

Wedzicha BL, Kaputo MT//Procter Dept Food Sci, Univ Leeds, Leeds  
LS2 9JT, England

FOOD CHEM 1992, 43 (5) 359

Melanoidins from glucose and glycine: Composition, characteristics  
and reactivity towards sulphite ion

Lococo F, Ceccon L\*, Valentini C, Novelli V//Univ Trieste, Dipartimento  
Econ & Merceol Risorse Nat & Prod, via Valerio 6, I-34127  
Trieste, Italy

J CHROMATOGR 1992, 590 (2) 235

High-performance liquid chromatographic determination of 2-furaldehyde  
in spirits

Morales FJ, Romero C, Jimenez-Perez S\*//CSIC, Inst Frio, Dairy  
Prod Res Unit, Ciudad Univ, Madrid 6, Spain

CHROMATOGRAPHIA 1992, 33 (1-2) 45

Enhanced liquid chromatographic method for 5-hydroxymethylfurfural  
determination in UHT milk

Vinas P, Campillo N, Cordoba MH\*, Candela ME//Univ Murcia,  
Dept Anal Chem, Fac Chem, Murcia, Spain

FOOD CHEM 1992, 44 (1) 67

Simultaneous liquid chromatographic analysis of 5-(hydroxymethyl)-2-  
furaldehyde and methyl anthranilate in honey

Nagendra R, Rao SV//Central Food Technol Res Inst, Dept Nutr &  
Food Safety, Mysore 570 013, India

FOOD CHEM 1992, 43 (5) 399

An improved colorimetric method for the estimation of lactulose in

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.

**lactose-lactulose mixtures**

Delwiche SR, Pitt RE, Norris KH//USDA ARS, Beltsville Agr Res Ctr, Beltsville, Md 20705, USA

CEREAL CHEM 1992, 69 (1) 107

Sensitivity of near-infrared absorption to moisture content versus water activity in starch and cellulose

**5 LIPIDS**

Gamoh K, Takatsuto S, Ikekawa N//Kochi Univ, Fac Educ, Akebono cho, Kochi 780, Japan

ANAL CHIM ACTA 1992, 256 (2) 319

Effective separation of C-24 epimeric brassinosteroids by liquid chromatography

Ulberth F, Reich H//Agr Univ, Dept Dairy Res & Bacteriol, A-1180 Vienna, Austria

FOOD CHEM 1992, 43 (5) 387

Gas chromatographic determination of cholesterol in processed foods

Precht D//Fed Dairy Res Ctr, Hermann Weigmann Str 1, W-2300 Kiel, FRG

Z LEBENSMITTEL-UNTERSUCH FORS 1992, 194 (2) 107

Detection of foreign fat in milk fat. 2. Quantitative evaluation of foreign fat mixtures

Youness NA//Anim Prod Res Inst, Dept Dairy Technol, Cairo, Egypt

GRASAS ACEITES 1991, 42 (4) 267

Adulteration of butterfat - Validity of Reichert-Meissl, Polenske and iodine values

Gomez RG, Roncero AV//Univ Castilla La Mancha, Dept Quim, La Mancha, Spain

GRASAS ACEITES 1991, 42 (4) 281

Quantitative determination of fatty esters of 3-phenylamine-1,2-propandiol by absorption spectrophotometry (Spanish, English Abstract)

Muniategui S, Sancho MT, Lopez J, Huidobro JF, Simal J//Univ Santiago Compostela, Fac Farm, Dept Quim Analit Nutr & Bromatol, E-15706 Santiago, Spain

GRASAS ACEITES 1991, 42 (4) 277

Separation of neutral lipid classes from bee-collected pollen by high-performance liquid chromatography (HPLC) (Spanish, English Abstract)

Murcia MA, Rincon F//Univ Murcia, Dept Food Sci, Vet Fac, Campus Espinardo, E-30071 Murcia, Spain

FOOD CHEM 1992, 44 (1) 29

Size as source of variance in lipid composition of pea

Chandrasekaran SK, Rao RG//Madras Vet Coll, Dept Dairy Sci, Madras 600007, Tamil Nadu, India

INDIAN VET J 1992, 69 (1) 53

The choice of a common chemical preservative for milk samples to estimate progesterone content in milk

**6 VITAMINS & CO-FACTORS**

Pizzoferrato L//Natl Inst Nutr, Food Chem Unit, via Ardeatina 546, I-00178 Roma (I), Italy

FOOD CHEM 1992, 44 (1) 49

Examples of direct and indirect effects of technological treatments on ascorbic acid, folate and thiamine

Chen BH, Yang SH//Fu Jen Univ, Dept Nutr Food Sci, Taipei, Tai-

wan 24205

FOOD CHEM 1992, 44 (1) 61

An improved analytical method for the determination of carotenes and xanthophylls in dried plant materials and mixed feeds

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

J CHROMATOGR 1992, 590 (2) 359

Ultramicrodetermination of cyanocobalamin in elemental diet by solid-phase extraction and high-performance liquid chromatography with UV detection

Abdel-Kader ZM//Ain Shams Univ Cairo, Biochem & Nutr Dept, Women's Coll, Egypt

FOOD CHEM 1992, 43 (5) 393

Comparison of AOAC and high-performance liquid chromatographic methods for thiamin determination in foods

Sebecic B, Vedrina-Dragojevic I//Univ Zagreb, Fac Pharm & Biochem, Dept Food Chem, Domagojeva 2, 41000 Zagreb, Croatia

Z LEBENSMITTEL-UNTERSUCH FORS 1992, 194 (2) 144

Fluorometric method for determination of vitamin-B<sub>6</sub> in soya bean

Tolomelli B, Laffi R, Marchetti S//Univ Bologna, Dipartimento Biochim, Ctr Studi & Ric Vitaminol, via Irnerio 48, I-40126 Bologna, Italy

IND ALIMENT 1991, 30 (299) 1055

Liquid chromatographic assay of vitamin-B<sub>6</sub> in feeds and foods (Italian, English Abstract)

**7 TRACE ELEMENTS & MINERALS**

Schwedt G, Neumann KD//Tech Univ Clausthal, Inst Anorgan & Analyt Chem, Paul Ernst Str 4, W-3392 Clausthal Zellerfe, FRG

Z LEBENSMITTEL-UNTERSUCH FORS 1992, 194 (2) 152

Application of enzymes for metal speciation analysis of iron and manganese in foodstuffs (German, English Abstract)

Oduoza CF//Teesside Polytech, Dept Chem Eng, Middlesbrough TS1 3BA, England

FOOD CHEM 1992, 44 (1) 9

Studies of food value and contaminants in canned foods

**8 DRUG, BIOCIDE & CHEMICAL RESIDUES**

Saez JJS, Garraeta MDH, Anton PC, Alonso MLF//Natl Inst Hlth Carlos III, Natl Ctr Food & Nutrit, E-28220 Majadahonda, Spain

FOOD ADDIT CONTAM 1991, 8 (5) 627

Identification of 4-bromo-2-chlorophenol as a contaminant responsible for organoleptic taint in melons

Knowles ME, Bell JR, Norman JA, Watson DH//R218, Ergon House, Nobel House, 17 Smith Sq, London SW1P 3JR, England

FOOD ADDIT CONTAM 1991, 8 (5) 551

Surveillance of potentially hazardous chemicals in food in the United Kingdom

Corti P, Dreassi E, Politi N, Aprea C//Univ Sienna, Dipartimento Farmao Chim Technol, Banchi Sotto 55, I-53100 Sienna, Italy

FOOD ADDIT CONTAM 1991, 8 (5) 607

Comparison of an HPTLC and HPLC procedure for the determination of chlorpropham, propham and thiabendazole residues in potatoes

Castegnaro M//Int Agcy Res Canc, 150 Cours Albert Thomas, F-69372 Lyons, France

**FOOD ADDIT CONTAM 1991, 8 (5) 577**

International N-nitroso compounds check sample programme - Report on the performance in the 2nd study dedicated to their determination in beer and malt

Huang LQ, Moore C, McGown S, Tomer KB//Connecticut Agr Expt Stn, Box 1106, New Haven, Ct 06504, USA  
CHEMOSPHERE 1991, 23 (8-10) 1043

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

Lundgren K, Rappe C, Buser HR//Umea Univ, Inst Environm Chem, S-90187 Umea, Sweden

CHEMOSPHERE 1991, 23 (11-12) 1591

Detection of alkylated polychlorodibenzofurans and alkylated polychlorodibenzo-p-dioxins by tandem mass spectrometry for the analysis of crustacean samples

Otteneder H, Putz A//Chem Untersuchungsamt Tier, Maxminerastr 11A, W-5500 Trier, FRG

DEUT LEBENSM-RUNDSCH 1992, 88 91) 13

Pesticide contents in drinking waters in Rhineland palatinate - Analyzing the situation from the viewpoint of official food control (German, English Abstract)

Castle L, Mercer AJ, Gilbert J//MAFF, Food Sci lab, Colney Lane, Norwich NR4 7UQ, England

FOOD ADDIT CONTAM 1991, 8 (5) 565

Migration from plasticized films into foods. 5. Identification of individual species in a polymeric plasticizer and their migration into foods

Hoffmeister A, Suhren G, Heeschen W//Bundesanstalt Milchforsch, Inst Hyg. Hermann Weigmann Str 1, W-2300 Kiel, FRG  
MILCHWISSENSCHAFT 1991, 46 (2) 770

High-pressure liquid chromatographic determination of sulfadimidine residues in milk - Incidence in consumer milk from various European countries

**9 TOXINS**

Sashidhar RB, Murthy HVV, Bhat VR//Osmania Univ, Dept Biochem, Univ Coll Sci, Hyderabad 500 007, India

FOOD CHEM 1992, 43 (5) 403

Analytical quality assurance for analysis of aflatoxins in agricultural export produce

Sharma A, Sehgal S//Haryana Agr Univ, Dept Food & Nutr, Hisar 125004, India

FOOD CHEM 1992, 43 (5) 383

Effect of processing and cooking on the antinutritional factors of faba bean (*Vicia faba*)

Xu C, Moore CH, Fountain DW, Yu PL\*//Massey Univ, Dept Biotechnol, Palmerston North, New Zealand

PLANT SCI 1992, 81 (2) 183

Purification and characterization of a new lectin from tamarillo fruit (*Cynhomandra betacea*)

Lauren DR, Agnew NMP, Smith WA, Sayer ST//Minist Agr Fisheries, Ruakura Agr Ctr, Hamilton, New Zealand

FOOD ADDIT CONTAM 1991, 8 (5) 599

A survey of the natural occurrence of Fusarium mycotoxins in cereals grown in New Zealand in 1986-1989

Huhtanen CN, Whiting RC, Miller AJ, Call JE//USDA ARS, Eastern

Reg Res Ctr, 600 E Mermaid Lane, Wyndmoor, Pa 19118, USA

J FOOD SAFETY 1992, 12 (2) 119

Qualitative correlation of the mouse neurotoxin and enzyme-linked immunoassay for determining *Clostridium botulinum* type-A and type-B toxins

**10 ADDITIVES**

Tonnesen HH//Inst Pharm, Dept Pharmaceut, POB 1068, N-0316 Oslo 3, Norway

Z LEBENSMITTEL-UNTERSUCH FORS 1992, 194 (2) 129

Studies on curcumin and curcuminoids. 18. Evaluation of Curcuma products by the use of standardized reference colour values

Rhodes J, Titherley AC, Norman JA, Wood R, Lord DW//Lancs City Lab, Pedders Way, Preston PR2 2TX, England

FOOD ADDIT CONTAM 1991, 8 (5) 663

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

Garcia PG, Balbuena MB, Fernandez AG//CSIC, Inst Grasa & Derivados, Unidad Biotechol Alimentos, Avda Padre Garcia Tejero N4, E-41012 Seville, Spain

GRASAS ACEITES 1991, 42 (4) 261

Instrumental methods for NaCl analysis in olive brines (Spanish, English Abstract)

**11 FLAVOURS & AROMAS**

Orilisi S, Benetti E//USI, Area Chim, Serv Multizionale Sanita Pubb, 12 via C Colombo 106, I-60127 Ancona, Italy

IND ALIMENT 1991, 30 (299) 1062

On the presence of bis(methylthio)methane in oils flavoured with truffe - Determination GC/MS (Italian, English Abstract)

Blank I, Sen A, Grosch W//Deutsch Forsch Lebensmittelchem, Lichtenbergstrasse 4, W-8046 Garching, FRG

FOOD CHEM 1992, 43 (5) 337

Sensory study on the character-impact flavour compounds of dill herb (*Anethum graveolens* L)

Voirin SG, Baumes RL\*, Gunata ZY, Bitteur SM, Beyonove CL, Tapiero C//INRA, Inst Prod Vigne, Aromes & Subst Nat Lab, 2 Pl Viala, F-34060 Montpellier, France

J CHROMATOGR 1992, 590 (2) 313

Analytical methods for monoterpene glycosides in grape and wine 1. XAD-2 extraction and gas chromatographic-mass spectrometric determination of synthetic glycosides

Lund ED, Bruemmer JH//US Citrus & Subtropical Prod Lab, PO Box 1909, Winter Haven, Fl 33883-1909, USA

FOOD CHEM 1992, 43 (5) 331

Sesquiterpene hydrocarbons in processed stored carrot sticks

Hartonen K, Jussila M, Manninen P, Riekkola ML\*//Univ Helsinki, Dept Chem, Div Analyt Chem, Vuorikatu 20, SF-00100 Helsinki 10, Finland

J MICROCOLUMN SEP 1992, 4 (1) 3

Volatile oil analysis of *Thymus vulgaris* L by directly coupled SPE/ GC

**12 ORGANIC ACIDS**

Calull M, Marce R, Borrull F//Univ Barcelona, Dept Quim, PCA Imperial Tarraco 1, E-43005 Tarragona, Spain

J CHROMATOGR 1992, 590 (2) 215

Determination of carboxylic acids, sugars, glycerol and ethanol in wine

and grape must by ion-exchange high-performance liquid chromatography with refractive index detection

Bevilacqua AE, Califano AN\*//La Plata Univ, Cent Invest Desarrollo & Criotecnol Aliment, Fac Cienc Exactas, 47 y 116, La Plata 1900, Argentina

FOOD CHEM 1992, 43 (5) 345

Changes in organic acids during ripening of Port Salut Argentino cheese

### 13 ANIMAL PRODUCTS

Bos A, Bos M, Van der Linden WE//Univ Technol Twente, Dept Chem Anal, POB 217, 7500 AE Enschede, The Netherlands

ANAL CHIM ACTA 1992, 256 (1) 133

Artificial neural networks as a tool for soft-modelling in quantitative analytical chemistry - The prediction of the water content of cheese

Mojo L, Chianese L, Rivemale M, Addeo F//Univ Napoli Federico 2, Ist Ind Agricar, I-80055 Portici, Italy

LAIT 1992, 72 (1) 87

Fast detection of bovine milk in Roquefort cheese with Phastsystem by gel isoelectric focusing and immunoblotting

Hofman K, Bluchel E//Bundesanstalt Fleischforsch, Inst Chem, EC Baumann Str 20, W-8650 Kulmbach, FRG

FLEISCHWIRTSCHAFT 1992, 72 (1) 85

Determining the animal species in meat and preserved meats heated to high temperatures by means of isoelectric focussing and sensitive silver staining (German, English Abstract)

Tsumura A, Deshima H, Okano K, Kohori K//Kobe Ctr Qual Control & Consumer Serv, Okayama Branch, 9-24 Tenjin cho, Okayama 700, Japan

J JPN SOC FOOD SCI TECHNOL 1992, 39 (1) 60

Identification of meat species using nonradioactive DNA labeling and detection kit (Japanese, English Abstract)

Amigo L, Ramos M, Calhau L, Barbosa M//Inst Fermentaciones Ind, CSIC, E-280006 Madrid, Spain

LAIT 1992, 72 (1) 95

Comparison of electrophoresis, isoelectric focusing, and immunodiffusion in determinations of cow's and goat's milk in Serra-da-Estrela cheeses

Daniele S, Baldo MA, Ugo P//Univ Venice, Dept Phys Chem, Dorso Duro S Marta 2137, I-30123 Venice, Italy

ELECTROANAL 1992, 4 (1) 93

Voltammetric determination of the titratable acidity of milk using a platinum microelectrode

Ferenc H//Address not available

MAGY ALLATORV LAPJA 1991, 46 (12) 754

On the quality parameters of the milk - A modified standard (Hungarian)

Lawrence LM, Gilmour A//Dept Agr Northern Ireland, Newforge Lane, Belfast BT9 5PX, Northern Ireland

J SOC DAIRY TECHNOL 1992, 45 (1) 19

The use of the chromogenic Limulus amoebocyte lysate assay to distinguish between ultra-high-temperature and in-container sterilized milks

Sauer S, Dietrich R, Schneider E, Terplan G//Univ Munich, Lehrstuhl Hyg & Technol Milch, Schellingstr 10 III, W-8000 Munich 40, FRG

ARCH LEBENSM-HYG 1991, 42 (6) 151

A rapid enzyme immunoassay for the detection of cows' milk in ewes and goats' milk (German, English Abstract)

Feigi E//Landesuntersuchungsamt Gesundheitswesen Nordbayern, Postfach 3229, W-8520 Erlangen, FRG

FLEISCHWIRTSCHAFT 1992, 72 (1) 46

Soya flour determination in frankfurter-type sausage (German, English Abstract)

### 14 PLANT & MICROBIAL PRODUCTS

Stringheta PC, Bobbio PA\*, Bobbio FO//Univ Estadual Campinas, Fac Eng Aliment, 13.081 Campinas, Sao Paulo, Brazil

FOOD CHEM 1992, 44 (1) 37

Stability of anthocyanic pigments from *Panicum melinis*

Adeyeye A, Ajewole K//Polytechnic, Ibadan, Dept Sci & Technol, Iree Campus, PMB 301, Iree, Oyo State, Nigeria

FOOD CHEM 1992, 44 (1) 41

Chemical composition and fatty acid profiles of cereals in Nigeria

Davis EA//Univ Minnesota, Dept Food Sci & Nutr, St Paul, Mn 55108, USA

CEREAL FOOD WORLD 1992, 37 (1) 38

A modern method of determining sizes of colloidal particles

Pilando LS, Wrolstad RE\*//Oregon State Univ, Dept Food Sci & Technol, Wiegand Hall, Corvallis, Or 97331-6602, USA

FOOD CHEM 1992, 44 (1) 19

Compositional profiles of fruit juice concentrates and sweeteners

Steinhart H, Petzinna H, Volmer W, Schaefer W//Univ Hamburg, Inst Biochem & Lebensmittelchem, Grindelallee, W-2000 Hamburg 13, FRG

DEUT LEBENSM-RUNDSCH 1992, 88 91) 1

Automatic analysis of fruit juice (German, English Abstract)

Tsimidou M, Papadopoulos G, Boskou D//Aristotle Univ Thessaloniki, Lab Food Chem & Technol, Fac Chem, Thessaloniki 54006, Greece

FOOD CHEM 1992, 44 (1) 53

Determination of phenolic compounds in virgin olive oil by reversed-phase HPLC with emphasis on UV detection

Nardi A, Cristalli M, Desiderio C, Ossicini L, Shukla SK, Fanali S\*// \*CNR, Ist Cromatog, POB 10, I-00016 Monterotondo, Italy

J MICROCOLUMN SEP 1992, 4 (1) 9

Indirect UV photometric detection in capillary zone electrophoresis for the determination of phytate in soybeans

Mizuno M, Tsuchida H, Kozuke N, Mizuno S//Kobe Univ, Fac Agr, Dept Hort & Agr, Nada ku, Kobe 657, Japan

J JPN SOC FOOD SCI TECHNOL 1992, 39 (1) 88

Rapid quantitative analysis and distribution of free quercetin in vegetable and fruits

Ruan R, Litchfield JB//Univ Illinois, Dept Agr Engn, Urbana, Il 61801, USA

CEREAL CHEM 1992, 69 (1) 13

Determination of water distribution and mobility inside maize kernels during steeping using magnetic resonance imaging