

# Bibliography of analytical, nutritional and clinical methods

(Four weeks journals - Search completed at 4th November 1994)

## 1 BOOKS, REVIEWS & SYMPOSIA

- Fletcher JS, Nellessen JE, Pfeleger TG// Univ Oklahoma, Dept Bot & Microbiol, Norman, Ok 73019, USA  
*Environ Toxicol Chem* 1994 13 (9) 1383  
 Literature review and evaluation of the EPA food-chain (Kenaga) nomogram, an instrument for estimating pesticide residues on plants
- Joshu NS, Thakar PN// Gujarat Agr Univ, SMC Coll Dairy Sci, Dept Dairy Technol, Anand Campus, Anand 388110, India  
*J Food Sci Technol-Mysore* 1994 31 (3) 181  
 Methods to evaluate deterioration of milk fat: A critical appraisal (Review)
- Pico Y, Molto JC, Manes J, Font G// Univ Valencia, Fac Farm, Toxicol Lab, Avda VA Estelles s/n, E-46100 Burjassot, Spain  
*J Microcolumn Sep* 1994 6 (4) 331  
 Solid phase techniques in the extraction of pesticides and related compounds from foods and soils (Review)
- Schwedt G, Stein K// Tech Univ Clausthal, Inst Anorgan & Analyt Chem, Paul Ernst Str 4, D-38678 Clausthal Zellerfeld, FRG  
*Z Lebensmittel-Untersuch Fors* 1994 199 (3) 171  
 Immobilized enzymes as tools in food analysis (Review)
- \*AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England  
*J Cereal Sci* 1994 19 (2) 115  
<sup>1</sup>H and <sup>2</sup>H NMR relaxation studies of a high *M<sub>r</sub>* subunit of wheat glutenin and comparison with elastin
- Bernier AM, Howes NK// Agr Canada, Res Stn, 195 Dafeo Rd, Winnipeg, Manitoba, Canada R3T 2M9  
*J Cereal Sci* 1994 19 (2) 157  
 Quantification of variation in tyrosinase activity among durum and common wheat cultivars
- Cornec M, Popineau Y, Lefebvre J// INRA, Biochim & Technol Prot Lab, rue Geraudiere, BP 527, F-44026 Nantes 03, France  
*J Cereal Sci* 1994 19 (2) 131  
 Characterisation of gluten subfractions by SE-HPLC and dynamic rheological analysis in shear
- Costa-Carvalho BT, Bertipaglia A, Sole D, Naspitz CK\*, Scaletsky ICA// \*Escola Paulista Med, Dept Pediat, Div Rheumatol Allergy & Clin Immunol, Rua Ottonis 725, BR-04025-002 Sao Paulo, Brazil  
*Acta Paediat* 1994 83 (8) 870  
 Detection of immunoglobulin (IgG and IgA) anti-outer-membrane proteins of enteropathogenic *Escherichia coli* (EPEC) in saliva, colostrum, breast milk, serum, cord blood and amniotic fluid. Study of inhibition of localized adherence of EPEC to HeLa cells

## 2 GENERAL

- El Khoury AE, Sanchez M, Fukagawa NK, Gleason RE, Young VR\*// \*MIT, Sch Sci & Clin Res Ctr, Human Nutr Lab, 77 Massachusetts Ave, Cambridge, Ma 02139, USA  
*J Nutr* 1994 124 (9) 1615  
 Similar 24 hour pattern and rate of carbon dioxide production, by indirect calorimetry versus stable isotope dilution, in healthy adults under standardized metabolic conditions
- Wang J// New Mexico State Univ, Dept Chem, Las Cruces, NM 88003, USA  
*Electroanal* 1994 6 (3) U171  
 Electroanalysis of foods and drinks (Editorial)

## 3 AMINO ACIDS, PROTEINS & ENZYMES

- Abdel-Fatah OM, Erdmann VA, Lippmann C, Abdel-Rahim EAM, Ahmed FAR// Cairo Univ, Fac Agr, Dept Biochem, Cairo, Egypt  
*Food Chem* 1994 51 (2) 143  
 Isolation, identification, characterization and stability of new cytoplasmic RNPs from *Vicia faba* seeds
- Andersen JS, Sogaard M, Svensson B, Roepstorff P\*// \*Odense Univ, Dept Molec Biol, Campusvej 55, DK-5230 Odense M, Denmark  
*Biol Mass Spectrom* 1994 23 (9) 547  
 Localization of an *O*-glycosylated site in the recombinant barley  $\alpha$ -amylase 1 produced in yeast and correction of the amino acid sequence using matrix-assisted laser desorption/ionization mass spectrometry of peptide mixtures
- Awade AC, Moreau S, Molle D, Brule G, Maubois JL// INRA, Rech & Technol Laitiere Lab, 65 rue St Brieuc, F-35042 Rennes, France  
*J Chromatogr A* 1994 677 (2) 279  
 Two-step chromatographic procedure for the purification of hen egg white ovomucin, lysozyme, ovotransferrin and ovalbumin and characterization of purified proteins
- Bausserman LL, Saritelli AL, Milosavljevic D// Brown Univ, Miriam Hosp, Div Cardiol, Lipid Res Lab, Providence, RI 02906, USA  
*Clin Chem* 1994 40 (9) 1713  
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- Belton PS, Colquhoun IJ\*, Field JM, Grant A, Shewry PR, Tatham AS//
- Eugui J, Logrono MJ, Ruiz R, Zugaza C, Mirabel JL, Martinez C// Hosp Txagorritxu, Bioquim Lab, Jose Ahotegui SN, E-01009 Vitoria, Spain  
*Clin Biochem* 1994 27 (4) 310  
 Immunoturbidimetry of serum apolipoproteins A-I and B on the Cobas Bio Centrifugal analyzer: Method validation and reference values
- Gaudichon C, Laurent C, Mahe S\*, Marks L, Tome D, Krempf M// \*INRA, Fac Sci Pharmaceut & Biol, Unite Nutr Humaine & Physiol Intestinale, 4 Ave Observatoire, F-75006 Paris, France  
*Reprod Nutr Develop* 1994 34 (4) 349  
 Rate of [<sup>15</sup>N]leucine incorporation and determination of nitrogenous fractions from gastro-jejunal secretion in fasting humans
- Hargreaves J, Le Meste M, Popineau Y\*// \*INRA, Biochim & Technol Prot Lab, BP 527, F-44026 Nantes 03, France  
*J Cereal Sci* 1994 19 (2) 107  
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- Harris JD, Taylor GA, Blake TK, Sands DS// Cent Agr Res Ctr, Moccasin, Mt 59462, USA  
*Euphytica* 1994 76 (1-2) 97  
 A fluorimetric assay for determining variation of lysine in wheat gliadin proteins
- Hirata K, Hirokado M, Uematsu Y, Nakjima K, Kazama M// Tokyo Metropolitan Res Lab Publ Hlth, 3-24-1 Hyakunin cho, Shinjuku ku, Tokyo 169, Japan  
*J Food Hyg Soc Jpn* 1994 35 (4) 380  
 Investigation on assay for the proteolytic activity of protease and papain preparations for food manufacturing

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 & Processing 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

Kahn SE, Labbe RF, Pfadenhauer EH, Kanonchhoff AD, Joseph RT// Loyola Univ, Med Ctr, Dept Pathol Clin Chem, 2160 Sth 1st Ave, Maywood, IL 60153, USA

*Clin Chem* 1994 40 (9) 1722

Multicenter evaluation of automated immunoturbidimetric assays for measurement of apolipoproteins A-I and B in serum and plasma

Kitabatake N, Doi E, Kinekawa YI// Kyoto Univ, Food Sci Res Inst, Uji, Kyoto 611, Japan

*J Food Sci* 1994 59 (4) 769

Simple and rapid method for measuring turbidity in gels and sols from milk whey protein

Landry J, Delhaye S// INRA, CBAI, Ctr Grignon, Chim Biol Lab, F-78850 Thiverval Grignon, France

*J Agr Food Chem* 1994 42 (8) 1717

Tryptophan determination in feedstuffs: A critical examination of data from two collaborative studies through the evaluation of tryptophan recovery

Lie S// Address not available.

*J Inst Brew* 1994 100 (5) 319

Determination of soluble nitrogen by spectrophotometry

Mahe S, Fauquant J, Gaudichon C, Roos N, Maubois JL, Tome D// Fac Sci Pharmaceut & Biol Paris, INRA, Nutr Humaine & Physiol Intestinale Lab, 4 Ave Observ, F-75270 Paris 06, France

*Lait* 1994 74 (4) 307

<sup>15</sup>N labelling and preparation of milk, casein and whey proteins

Matsuura JE, Manning MC\*// \*Univ Colorado, Hlth Sci Ctr, Sch Pharm, Dept Pharmaceut Sci, 4200 East 9th Ave, Denver, Co 80262, USA

*J Agr Food Chem* 1994 42 (8) 1650

Heat induced gel formation of  $\beta$ -lactoglobulin: A study on the secondary and tertiary structure as followed by circular dichroism spectroscopy

Schadewaldt P, Brosicke H, Haisch M, Matthies U, Wendel U// Diabet Forschungsinst, Biochem Klin, Hennekamp 65, D-40225 Dusseldorf, FRG

*Isotopenpraxis* 1994 30 (1) 141

Leucine oxidation *in vivo*: Inter- and intraindividual variation in healthy subjects as assessed by oral L-[1-<sup>13</sup>C]leucine loads

Schwarz S, Haas B, Luley C, Schafer JR, Steinmetz A\*// \*Univ Marburg, Zentrum Innere Med, Endokrinol & Stoffwechsel Abt, Baldinger Str, D-35033 Marburg, FRG

*Clin Chem* 1994 40 (9) 1717

Quantification of apolipoprotein A-IV in human plasma by immunonephelometry

Senyuk VI, Yattara HB, Vaintraub IA// State Univ Moldova, Prot Chem Lab, Kishinev, Moldova

*Nahrung* 1994 38 (4) 369

Purification of some soybean proteins by hydrophobic chromatography

Sick H, Roos N, Trugo N// Bundesanstalt Milchwirtschaft, Inst Physiol & Biochem Ernahrung, Hermann Weigmann Str 1, D-24103 Kiel, FRG

*Isotopenpraxis* 1994 30 (1) 111

Discrimination of nitrogen isotopes during liver metabolism feeding different food proteins (German, English Abstract)

Wieser H, Seilmeier W, Belitz HD// Tech Univ Munich, Inst Lebensmittelchem, Deutsch Forsch Anstalt Lebensmittelchem, Lichtenbergstr 4, D-85748 Garching, FRG

*J Cereal Sci* 1994 19 (2) 149

Quantitative determination of gliadin subgroups from different wheat cultivars

#### 4 CARBOHYDRATES

Baier B, Harms J, Kruger E// Versuchs & Lehranstalt Brauerei Berlin, Qualitätssicherung Forschungsinst, Seestr 13, D-13533 Berlin, FRG

*Monatsschr Brauwissen* 1994 47 (9) 278

Application of continuous flow analysis technology for quality control in the brewery industry. V. Determination of the thiobarbituric acid count in malt, brewing wort and beer (German, English Abstract)

Correa A, Comesana JF, Sereno AM\*// \*Univ Oporto, Dept Chem Engr, Rua Bragas, P-4099 Oporto, Portugal

*Int J Food Sci Technol* 1994 29 (3) 331

Use of analytical solutions of groups (ASOG) contribution method to predict water activity in solutions of sugars, polyols and urea

Flamme WT, Jurgens HU, Jansen GG// Fed Ctr Breeding Res Cultivated Plants, Inst Stress Physiol & Qual Raw Mat, Inst Platz 18190, Gross Lusewitz, FRG

*Amer Lab* 1994 26 (14) 29

Quantitative determination of amylose and amylopectin in starches by HPSEC with DMSO as solvent and eluant

Gay LJ, Schutz Y\*, Di Vetta V, Schneiter P, Tappy L, Jequier E// \*Univ Lausanne, Fac Med, Inst Physiol 7, rue Bugnon, CH-1005 Lausanne, Switzerland

*Int J Obesity* 1994 18 (9) 591

Measurement of <sup>13</sup>CO<sub>2</sub> in expired air as an index of compliance to a high carbohydrate diet naturally enriched in <sup>13</sup>C

Lehtonen P, Hurme R// Alko Ltd, Alcohol Control Lab, POB 350, SF-00101 Helsinki, Finland

*J Inst Brew* 1994 100 (5) 343

Liquid chromatographic determination of sugars in beer by evaporative light scattering detection

Lin Y, Wagner GJ\*// \*Univ Kentucky, Dept Agron, Plant Physiol Biochem Molec Biol Program, Lexington, Ky 40546, USA

*J Agr Food Chem* 1994 42 (8) 1709

Rapid and simple method for estimation of sugar esters

Politz ML, Timpa JD, White AR, Wasserman BP\*// \*Rutgers State Univ, Cook Coll, Ctr Adv Food Technol, New Jersey Agr Expt Stn, Dept Food Sci, New Brunswick, NJ 08903, USA

*Carbohydr Polym* 1994 24 (2) 91

Non-aqueous gel permeation chromatography of wheat starch in dimethylacetamide (DMAC) and LiCl: Extrusion-induced fragmentation

Rouau X, Surget A// INRA, Lab Technol Cereales, 2 pl Pierre Viala, F-34060 Montpellier 1, France

*Carbohydr Polym* 1994 24 (2) 123

A rapid semi-automated method for the determination of total and water-extractable pentosans in wheat flours

Schricker T, Albuszies G, Kugler B, Wachter U, Georgieff M// Univ Ulm, Anesthesiol Clin, Steinboelstr 9, D-89075 Ulm, FRG

*Nutrition* 1994 10 (4) 342

Determination of glycerol turnover by stable-isotope technique in humans: A new [1,1,2,3,3-<sup>2</sup>H<sub>5</sub>]glycerol derivative for mass-spectrometry analysis

Schuck DF, Pavlina TM// Baxter Healthcare Corp, William B Graham Sci Ctr, Round Lake, IL 60073, USA

*J Planar Chromat Mod TLC* 1994 7 (3) 242

Rapid detection of 5-(hydroxymethyl)-2-furfural in parenteral solutions with high-performance thin-layer chromatography

To KM, Mitchell JR, Hill SE, Bardou LA, Matthews P// Univ Nottingham, Dept Appl Biochem & Food Sci, Sutton Bonington Campus, Loughborough LE12 5RD, Leics, England

*Food Hydrocolloid* 1994 8 (3-4) 243

Measurement of hydration of polysaccharides

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

*Bee World* 1994 75 (3) 104

The role of HMF and diastase assays in honey quality evaluation

#### 5 LIPIDS

Berg JE, Hostmark AT// Univ Oslo, Dept Community Med, Gydasveien 8, N-0363 Oslo, Norway

*J Epidemiol Community Health* 1994 48 (4) 338

Cardiovascular risk determination: Discrepancy between total cholesterol evaluation and two compound laboratory indices in Norway

Bondia EM, Castellote AI, Lopez MC\*, Rivero M// \*Univ Barcelona, Fac Farm, Dept Ciencias Fisiol Humanes & Nutr, Unitat Nutr & Bromatol, E-08028 Barcelona, Spain

*J Chromatogr B-Bio Med Appl* 1994 658 (2) 369

Determination of plasma fatty acid composition in neonates by gas chromatography

Dennison BA, Jenkins PL, Pearson TA// Bassett Hlthcare, Mary Imogene Bassett Res Inst, 1 Atwell Rd, Cooperstown, NY 13326, USA

*Pediatrics* 1994 94 (3) 296

Challenges to implementing the current pediatric cholesterol screening guidelines into practice

Dieffenbacher A, Golay PA, Fay LB// Nestle Forschungszentrum, Vers Chez Les Blanc, Postfach 44, CH-1000 Lausanne 26, Switzerland

*Deut Lebensm-Rundsch* 1994 90 (3) 74

Some experiences in the application of the methods of 35 of the German Food Regulation for the determination of cholesterol in egg substitutes (German, English Abstract)

Duce SL, Ablett S, Guiheneuf TM, Horsfield MA, Hall LD// Univ Cambridge, Sch Clin Med, Herchel Smith Lab Med Chem, Univ Forvie Site, Robinson Way, Cambridge CB2 2PZ, England

*J Food Sci* 1994 59 (4) 808

Quantitative determination of water and lipid in sunflower oil and water/meat/fat emulsions by nuclear magnetic resonance imaging

Gertz C, Arens M// Chem Untersuchungsamt Hagen, Postfach 4249, D-58042 Hagen, FRG

*Fett Wiss Technol* 1994 96 (8) 318

External quality control for laboratories in the analysis of fats and oils (German, English Abstract)

- Grob K, Giuffrè AM, Leuzzi U, Mincione B// Kantonales Lab, CH-8030 Zurich, Switzerland  
*Fett Wiss Technol* 1994 **96** (8) 286  
Recognition of adulterated oils by direct analysis of the minor components
- Hartman L, Viana HS, Freitas S// EMBRAPA, CTAA, Natl Ctr Food Technol Res, Ave Amer 29501, BR-23020470 Rio de Janeiro, Brazil  
*Analyst* 1994 **119** (8) 1793  
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- Herbretreau F, Coiffard L, Derrien A, Deroeck-Holtzhauer Y// Univ Nantes, Fac Pharm, Ctr Atlantique Etud Cosmetol, Pharm Ind & Cosmetol Lab, 68 Blvd Eugene Orioux, F-44000 Nantes, France  
*Rev Fr Corps Gras* 1994 **41** (5-6) 119  
Determination of the fatty acid composition of the lipids of the flesh of *Crepidula formicata* L: Laboratory note (French, English Abstract)
- Koussissis SG, Semidalas CE, Hadzistavrou EC, Kalyvas VG, Antonopoulou S, Demopoulos CA// \*Natl Univ Athens, Dept Chem, GR-15771 Athens, Greece  
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- Matthaus B, Wiezorek C, Eichner K// Bundesanstalt Getreide Kartoffel & Fettforschung, Inst Chem & Phys Fette, Postfach 1705, D-48006 Munster, FRG  
*Fett Wiss Technol* 1994 **96** (3) 95  
Fast chemiluminescence method for detection of oxidized lipids
- Przybylski R, Eskin NAM// Univ Manitoba, Dept Nutr & Foods, Winnipeg, Manitoba, Canada R3T 2N2  
*Food Chem* 1994 **51** (2) 231  
Two simplified approaches to the analysis of cereal lipids
- Rossell JB// Leatherhead Food Res Assoc, Randalls Rd, Leatherhead KT22 7RY, Surrey, England  
*Fett Wiss Technol* 1994 **96** (8) 304  
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- Shantha NC, Crum AD, Decker EA// \*Univ Massachusetts, Dept Food Sci, 236 Chenoweth Lab, Amherst, Ma 01003, USA  
*J Agr Food Chem* 1994 **42** (8) 1757  
Evaluation of conjugated linoleic acid concentrations in cooked beef
- Valencia-Gonzalez MJ, Diaz-Garcia ME// \*Univ Oviedo, Dept Phys & Analyt Chem, Julian Claveria 8, E-33006 Oviedo, Spain  
*Anal Chem* 1994 **66** (17) 2726  
Enzymatic reactor/room-temperature phosphorescence sensor system for cholesterol determination in organic solvents
- Van de Voort FR, Ismail AA, Sedman J, Dubois J, Nicodemo T// McGill Univ, Dept Food Sci & Agr Sci, MacDonald Campus, St Anne de Bellevue, Quebec, Canada H9X 3V9  
*J Amer Oil Chem Soc* 1994 **71** (9) 921  
The determination of peroxide value by Fourier transform infrared spectroscopy
- Wang H, Hachey DL, Liu D, Zhang SD, Dudley MA// Baylor Coll Med, Dept Pediat, USDA ARS, Childrens Nutr Res Ctr, Houston, Tx 77030, USA  
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Microanalysis of cholesterol, phospholipid, and medium-chain and long-chain fatty acids in biologic materials
- Ward K, Scarth R, Daun JK, Thorsteinson CT// Univ Manitoba, Dept Plant Sci, Winnipeg, Manitoba, Canada R3T 2N2  
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A comparison of high-performance liquid chromatography and spectrophotometry to measure chlorophyll in canola seed and oil
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- Acuff RV, Thedford SS, Hidioglou NN, Papas AM, Odom TA// East Tennessee State Univ, Eastman Ctr Nutr Res, Dept Surg, Box 70575, Johnson City, Tn 37614, USA  
*Amer J Clin Nutr* 1994 **60** (3) 397  
Relative bioavailability of RRR- and all-rac- $\alpha$ -tocopheryl acetate in humans: Studies using deuterated compounds
- Aitzetmuller K// Bundesanstalt Getreide Kartoffel & Fettforsch, Inst Chem & Phys Fette, Piusallee 76, D-48147 Munster, FRG  
*Fett Wiss Technol* 1994 **96** (8) 279  
HPLC of vitamin A esters in margarine (German, English Abstract)
- Bhushan R, Parshad V// Univ Roorkee, Dept Chem, Roorkee 247667, Uttar Pradesh, India  
*Biomed Chromatogr* 1994 **8** (4) 196  
Separation of vitamin B complex and folic acid using TLC plates impregnated with some transition metal ions
- Brinkmann E, Mehlitz I, Oei HB, Tiebach R, Baltes W// \*Tech Univ Berlin, Inst Lebensmittelchem, Gustav Meyer Allee 25, D-13355 Berlin, FRG  
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Determination of vitamin A in liver and liver-containing products using narrow-bore normal phase HPLC
- Goldenberg H, Jirovetz L, Krajnik P, Mosgoller W, Moslinger T, Schweinzer E// \*Univ Vienna, Dept Med Chem, Waehringerstr 10, A-1090 Vienna, Austria  
*Anal Chem* 1994 **66** (7) 1086  
Quantitation of dehydroascorbic acid by the kinetic measurement of a derivatization reaction
- Harper AF, Lindemann MD, Chiba LI, Combs GE, Handlin DL, Kornegay ET, Southern LL// Tidewater Agr Res & Ext Ctr, Suffolk, Va 23437, USA  
*J Anim Sci* 1994 **72** (9) 2338  
An assessment of dietary folic acid levels during gestation and lactation on reproductive and lactational performance of sows: A cooperative study
- Lu GH, Wang Y, Yao LM, Hu SL// Cent China Normal Univ Wuhan, Dept Chem, Wuhan 430070, Peoples Rep China  
*Food Chem* 1994 **51** (2) 237  
Determination of ascorbic acid in fruits and vegetables by stripping voltammetry on a glassy carbon electrode
- Moeslinger T, Brunner M, Spieckermann PG// Inst Med Physiol, Schwarzsparnerstr 17, A-1090 Vienna, Austria  
*Anal Biochem* 1994 **221** (2) 290  
Spectrophotometric determination of dehydroascorbic acid in biological samples
- Perez-Ruiz T, Martinez-Lozano C, Sanz A, Tomas V// Univ Murcia, Fac Chem, Dept Analyt Chem, E-30071 Murcia, Spain  
*Analyst* 1994 **119** (8) 1825  
Photokinetic determination of riboflavin 5'-phosphate using flow injection analysis and chemiluminescence detection
- Safavi A, Fotouhi L// Shiraz Univ, Coll Sci, Dept Chem, Shiraz, Iran  
*Talanta* 1994 **41** (8) 1225  
Kinetic spectrophotometric determination of ascorbic acid by reduction of toluidine blue
- Shin TS, Godber JS// \*Louisiana State Univ, Ctr Agr, Louisiana Agr Expt Stn, Dept Food Sci, Baton Rouge, La 70803, USA  
*J Chromatogr A* 1994 **678** (1) 49  
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- Tomiyama S, Nitta T, Yamada S// Kureha Chem Ind Co Ltd, Biomed Res Labs, Shinjuku ku, 3-26-2 Hyakunin cho, Tokyo 169, Japan  
*Steroids* 1994 **59** (9) 559  
Gas chromatography/mass spectrometric analysis of 24R,25-dihydroxyvitamin D<sub>3</sub> using 24R,25-dihydroxy[6,19,19-<sup>2</sup>H]vitamin D<sub>3</sub> as internal standard
- ## 7 TRACE ELEMENTS & MINERALS
- Alegria A, Barbera R, Farre R, Moreno A// Univ Valencia, Dept Nutr & Food Sci, Valencia, Spain  
*Nahrung* 1994 **38** (4) 382  
GFAAS determination of selenium in infant formulas using a microwave digestion method
- Arruda MAZ, Quintela MJ, Gallego M, Valcarcel M// \*Univ Cordoba, Fac Sci, Dept Analyt Chem, E-14004 Cordoba, Spain  
*Analyst* 1994 **119** (8) 1695  
Direct analysis of milk for aluminium using electrothermal atomic absorption spectrometry
- Bahnick D, Sauer C, Butterworth B, Kuehl DW// Univ Wisconsin, Ctr Lake Super Environm Studies, Superior, Wi 54880, USA  
*Chemosphere* 1994 **29** (3) 537  
A national study of mercury contamination of fish. IV Analytical methods and results
- Baldwin S, Deaker M, Maher W// Univ Canberra, Fac Sci Appl, POB 1, Belconnen, ACT 2616, Australia  
*Analyst* 1994 **119** (8) 1701  
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- Ballin U, Kruse R, Russel HA// Staat Vet Untersuchungsamt Fische & Fischwaren, Schleusenstr, D-27472 Cuxhaven, FRG  
*Fresenius J Anal Chem* 1994 **350** (1-2) 54  
Determination of total arsenic and speciation of arseno-betaine in marine fish by means of reaction headspace gas chromatography utilizing flame-ionization detection and element specific spectrometric detection
- Bannon DI, Murashchik C, Zapf CR, Farfel MR, Chisolm JJ// Kennedy Krieger Inst, Trace Met Lab, 3001 I-2 East Biddle St, Baltimore, Md 21213, USA  
*Clin Chem* 1994 **40** (9) 1730  
Graphite furnace atomic absorption spectroscopic measurement of blood lead

in matrix-matched standards

Blumsohn A, Morris B, Estell R\*// \*Nthn Gen Hosp, Ctr Clin Sci, Dept Human Metab & Clin Biochem, Herries Rd, Sheffield S5 7AU, England  
*Clin Sci* 1994 **87** (3) 363

Stable strontium absorption as a measure of intestinal calcium absorption: Comparison with the double-radiotracer calcium absorption test

Campana AMG, Barrero FA\*, Ceba MR, Gutierrez AF// \*Univ Granada, Fac Sci, Dept Analyt Chem, E-18071 Granada, Spain  
*Analyst* 1994 **119** (8) 1903

Spectrofluorimetric determination of molybdenum in vegetal tissues and a pharmaceutical compound with alizarin red S in micellar medium

Casez JP, Muehlbauer RC, Lippuner K, Kelly T, Fleisch H, Jaeger P\*// \*Univ Bern, Inselspital, Med Policlin, CH-3010 Bern, Switzerland  
*Bone Miner* 1994 **26** (1) 61

Dual-energy X-ray absorptiometry for measuring total bone mineral content in the rat: Study of accuracy and precision

Cobb J, Warwick P, Carpenter RC, Morrison RT// Loughborough Univ Technol, Dept Chem, Loughborough LE11 3TU, Leics, England  
*Analyst* 1994 **119** (8) 1759

Determination of <sup>90</sup>Sr in water and urine samples using ion chromatography

Dolenc J, Gorenc D// Univ Ljubljana, Dept Chem & Chem Technol, Ljubljana, Slovenia  
*Nahrung* 1994 **38** (4) 434

Ion chromatographic determination of inorganic anions in vinegar samples

Ducros V, Ruffieux D, Belin N, Favier A// Hop Michallon, Biochim Lab C, BP 217, F-38043 Grenoble, France  
*Analyst* 1994 **119** (8) 1715

Comparison of two digestion methods for the determination of selenium in biological samples

Dutta J, Chatterjee A, Basu S// Univ Burdwan Golapbag, Dept Chem Burdwan, 713104 West Bengal, India  
*J Radioanal Nucl Chem Art* 1994 **181** (2) 433

Estimation of iron in fruit samples by substoichiometric extraction with malonic anilide

Dybczynski R, Danko B// Inst Nucl Chem & Technol, Dorodna 16, PL-03195 Warsaw, Poland  
*J Radioanal Nucl Chem Art* 1994 **181** (1) 43

A definitive method for the determination of trace amounts of cobalt in biological materials by neutron activation analysis

Esteve MJ, Farre R\*, Frigola A// \*Univ Valencia, Avda Vicent Andres Estelles s/n, E-46100 Burjassot, Spain  
*Nahrung* 1994 **38** (4) 386

Determination of Cd, Cu, Pb and Zn content of infant formulas by differential pulse anodic stripping voltammetry (DPASV)

Harms J, Schwedt G\*// \*Tech Univ Clausthal Zellerfeld, Inst Inorgan & Analyt Chem, Paul Ernst Str 4, D-38670 Clausthal Zellerfeld, FRG  
*Fresenius J Anal Chem* 1994 **350** (1-2) 93

Applications of capillary electrophoresis in element speciation analysis of plant and food extracts

Landsberger S, Peshev S// Univ Illinois, Dept Nucl Engr, Nucl Engr Lab 214, 103 S Goodwin Ave, Urbana, IL 61801, USA  
*J Radioanal Nucl Chem Art* 1994 **181** (1) 61

Determination of chromium in biological reference materials by instrumental NAA using Compton suppression

Owen LMW, Crews HM, Bishop NJ, Massey RC// MRC Dunn Nutr Unit, Milton Rd, Cambridge CB4 1XJ, England  
*Food Chem Toxicol* 1994 **32** (8) 697

Aluminium uptake from some foods by guinea pigs and the characterization of aluminium in *in vivo* intestinal digesta by SEC-ICP-MS

Pearce N, Schettler G// Univ Wales, Inst Earth Studies, Aberystwyth SY23 3DB, Dyfed, Wales  
*Environ Geochem Health* 1994 **16** (2) 79

Trace metal uptake by mussels in a recently deceased community, Lake Breiting, Germany A laser ablation ICP-MS study

Pel E, Schuttelkopf H// Kernforschungszentrum Karlsruhe GmbH, Postfach 3640, D-76021 Karlsruhe, FRG  
*Deut Lebensm-Rundsch* 1994 **90** (8) 242

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Petersson LR// Natl Vet Inst, Dept Chem, POB 7073, S-75007 Uppsala, Sweden  
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Sheppard BS, Heitkemper DT, Gaston CM// US FDA, Natl Forens Chem Ctr, 1141 Cent Pkwy, Cincinnati, OH 45202, USA  
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Tahan JE, Granadillo VA, Romero RA\*// \*Univ Zulia, Fac Ciencias Exptl, Instrumentac Anal Lab, Maracaibo, Venezuela  
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Vernet M, Revenant MC, De Bressing CC, Guillemin C, Pressac M, Renversez JC, Rymer JC// Hop Croix Rousse, Biochim Lab, F-69317 Lyon 4, France  
*Ann Biol Clin Paris*, 1994 **52** (6) 493

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Weiner RE, Spencer RP// Univ Connecticut, Ctr Hlth, Dept Nucl Med, Farmington, Ct 06030, USA

*Clin Nucl Med* 1994 **19** (9) 763

Quantification of <sup>67</sup>Ga citrate in breast milk

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Bergaentzle M, Sanquer F, Hasselmann C, Marchioni E\*// \*Fac Pharm, Dept Sci Aliment, BP 24, 74 Rte Rhin, F-67401 Illkirch, France  
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Detection of  $\gamma$ -irradiated raw-milk Camembert cheeses by capillary gas chromatographic analysis of volatile hydrocarbons

Brandsteterova E, Kralikova D, Lehota J, Tekel J// Slovak Tech Univ, Fac Chem Technol, Dept Analyt Chem, Bratislava, Slovakia  
*Nahrung* 1994 **38** (4) 439

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Croteau LG, Akhtar MH\*, Belanger JMR, Pare JRJ// \*Agr & Agrifood Canada, Res Branch, Dept Food & Anim Res, Ottawa, Ontario, Canada K1A 0H3  
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Defilippi A, Piancone G, Tibaldi GP, Tartaglino L, Viretto A// Lab Sanita Pubbl, Sez Chim, USSL 40, via Saudino 3, I-10015 Ivrea, Italy  
*Ind Aliment* 1994 **33** (328) 737

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Galceran MT, Curto MJ, Puignou L, Moyano E// Univ Barcelona, Dept Quim Analit, Avda Diagonal 647, E-08028 Barcelona, Spain  
*Anal Chim Acta* 1994 **295** (3) 307

Determination of acridine derived compounds in charcoal-grilled meat and creosote oils by liquid chromatographic and gas chromatographic analysis

Horii S, Miyakawa H, Igusa K, Itoh T// Tokyo Metropolitan Res Lab Publ Hlth, 3-24-1 Hyakunincho, Shinjuku ku, Tokyo 169, Japan  
*J Food Hyg Soc Jpn* 1994 **35** (4) 352

Analysis of residual synthetic antibacterials in meat and poultry meat by high-performance liquid chromatography

Hormazabal V, Yndestad M// Norwegian Coll Vet Med, Dept Food Hyg, POB 8146 Dep, N-0033 Oslo 1, Norway  
*J Liq Chromatogr* 1994 **17** (13) 2901

Simultaneous extraction and determination of oxolinic acid and flumequine in fish silage by HPLC

Hormazabal V, Yndestad M// Address as above.

*J Liq Chromatogr* 1994 **17** (13) 2911

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Horn M, Heinzow B\*, Dolk G// \*Untersuch Umwelttox Landes Schleswig, Fleckenstr 4, D-24105 Kiel, FRG  
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Ishiwata H, Sugita T, Yamada T// Natl Inst Hlth Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158, Japan  
*J Food Hyg Soc Jpn* 1994 **35** (4) 385

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Koiguchi S, Hasegawa M, Kamakura K, Hirahara Y, Narita M, Okamoto K, Miyata M, Yamana T, Tonogai Y, Ito Y// Ctr Inspect Imported Foods & Infect Dis, Kobe Quarantine Stn, 1-1 Toyahama cho, Hyogo ku, Kobe 652, Japan  
*Jpn J Toxicol Environ Health* 1994 **40** (3) 286

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Kuehl DW, Butterworth B, Marquis PJ// US EPA, Environm Lab, Duluth, Mn 55804, USA

*Chemosphere* 1994 **29** (3) 523

A national study of chemical residues in fish. III. Study results

Lihl S, Petz M\*// \*Berg Univ GH Wuppertal, Fachbereich Chem Lebensmittelchem 9, Gausstr 20, D-42097 Wuppertal, FRG  
*Z Lebensmittel-Untersuch Fors* 1994 **199** (3) 229

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Mahedero MC, Salinas F, Aaron JJ\*// \*Univ Paris 07, CNRS, Inst Topol & Dynam Syst, 1 rue Guy Brosse, F-75005 Paris, France  
*J Pharmaceut Biomed Anal* 1994 **12** (9) 1097

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Marquis PJ, Hackett M, Holland LG, Larsen ML, Butterworth B, Kuehl DW// Univ Wisconsin, Ctr Lake Super Environm Studies, Superior, WI 54880, USA  
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Marquis PJ, Hanson RL, Larsen ML, Devita WM, Butterworth BC, Kuehl DW// Address as above  
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Martinez-Vidal JL, Cervantes-Ocana D, Fernandez-Alba AR, Aguilera-Aguera P// Univ Almeria, Dept Analyt Chem, E-04120 Almeria, Spain  
*Int J Environ Anal Chem* 1994 **56** (1) 1

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Mortimer RD, Black DB, Dawson BA// Hlth & Welf Canada, Hlth Protect Branch, Food Directorate, Bur Chem Safety, Div Food Res, Ottawa, Ontario, Canada K1A 0L2  
*J Agr Food Chem* 1994 **42** (8) 1713

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Narita M, Miyata M, Kamakura K, Hirahara Y, Okamoto K, Hasegawa M, Koiguchi S, Miyoshi T, Yamana T, Tonogai Y *et al*// Ctr Inspect Imported Foods & Infect Dis, Kobe Quarantine Stn, 1-1 Toyahama cho, Hyogo ku, Kobe 652, Japan  
*J Food Hyg Soc Japn* 1994 **35** (4) 371

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Nyanzi S, Karg J, Schwack W// Univ Karlsruhe, Inst Lebensmittelchem, Kaiserstr 12, D-76128 Karlsruhe, FRG  
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Sato Y, Sugawara M, Watabe R, Kikuchi M, Mishima Y, Kato T, Oba M// Sendai Municipal Meat Inspector Off, 6-3-6 Ogimachi, Miyagino ku, Sendai 983, Japan  
*J Food Hyg Soc Japn* 1994 **35** (4) 390

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Sharma GD// PMB Gukarato Sci Coll, Dept Zool, Indore 452002, India  
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Steele DH, Thornburg MJ, Stanley JS\*, Miller RR, Brooke R, Cushman JR, Cruzan G// \*Midwest Res Inst, 425 Volker Blvd, Kansas City, Mo 64110, USA  
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Tyczkowska KL, Voyksner RD, Anderson KL, Papich MG// Nth Carolina State Univ, Coll Vet Med, Dept Anat Physiol Sci & Radiol, Clin Pharmacol Unit, Raleigh, NC 27606, USA  
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Daul CB, Slattery M, Reese G, Lehrer SB\*// \*Tulane Univ, Sch Med, Dept Med, Clin Immunol Sect, 1700 Perdido St, New Orleans, LA 70112, USA  
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Prieta J, Moreno MA, Diaz S, Suarez G, Dominguez L\*// \*Univ Complutense Madrid, Fac Vet, Dept Patol Anim 1, E-28040 Madrid, Spain  
*J Agr Food Chem* 1994 **42** (8) 1701

Survey of patulin in apple juice and children's apple food by the diphasic dialysis membrane procedure

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Weisz A, Andrzejewski D, Ito Y// US FDA, Off Cosmet & Colors, Washington, DC 20204, USA  
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Preparative separation of components of the color additive D&C red no 28 (phloxine B) by pH zone-refining countercurrent chromatography

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Allen MS, Lacey MJ, Boyd S// Univ Bordeaux 1, Inst Oenol, 351 Cours Libérat, F-33405 Talence, France  
*J Agr Food Chem* 1994 **42** (8) 1734

Determination of methoxypyrazines in red wines by stable isotope dilution gas chromatography-mass spectrometry

Ballarini G// Valbona Alimentari Srl, Chim Lab, via Sagrede, I-35034 Lozzo Atestino, Italy  
*Ind Aliment* 1994 **33** (325) 406

Flavour effect on artichokes in oil assessed by UV (Italian, English Abstract)

Krammer GE, Takeoka GR, Buttery RG// Haarmann & Reimer GmbH, Corp Res, Postfach 1253, D-37601 Holzminden, FRG  
*J Agr Food Chem* 1994 **42** (8) 1595

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Lamprecht G, Pichlmayer F, Schmid ER// Univ Vienna, Inst Analyt Chem, Wahringerstr 38, A-1090 Vienna, Austria  
*J Agr Food Chem* 1994 **42** (8) 1722

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Ojala M, Kotiaho T, Siirila J, Sihvonen ML// VTT, Chem Lab, POB 204, SF-02151 Espoo, Finland  
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Thomas DJ, Parkin KL\*// \*Univ Wisconsin, Dept Food Sci, 1605 Linden Dr, Madison, WI 53706, USA  
*J Agr Food Chem* 1994 **42** (8) 1632

Quantification of alk(en)yl-L-cysteine sulfoxides and related amino acids in alliums by high-performance liquid chromatography

Van Ruth SM, Roozen JP// Agr Univ Wageningen, Dept Food Sci, POB 8129, 6700 EV Wageningen, The Netherlands  
*Food Chem* 1994 **51** (2) 165

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Wood AF, Aston JW, Douglas GK// Dept Primary Ind, 19 Hercules St, Hamilton, Qld 4007, Australia  
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A cold-trap method for the collection and determination of headspace compounds from cheese

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Buckee GK// Address not available.

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Determination of iso- $\alpha$ -acid,  $\alpha$ -acid and  $\beta$ -acid in hop and isomerized hop ex-

tracts. A collaborative study (German, English Abstract)

Cano MP, Torija E, Marin MA, Camara M// Univ Madrid, Spanish Council Sci Res, Inst Frio, Dept Freezing Vegetable Prod, E-28040 Madrid, Spain  
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A simple ion-exchange chromatographic determination of non-volatile organic acids in some Spanish exotic fruits

Guth H, Grosch W\*// \*Deutsch Forschungsanstalt Lebensmittelchem, Lichtenbergstr 4, D-85748 Garching, FRG  
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Quantitative analysis of caffeic and ferulic acids in oatmeal. Comparison of a conventional method with a stable isotope dilution assay

Lucan ZD, Palic A// Univ Zagreb, Fac Food Technol & Biotechnol, Pierottijeva 6, Zagreb 41000, Croatia  
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Madigan D, McMurrugh I, Smyth MR// Guinness Brewing Worldwide Res Ctr, St James' Gate, Dublin 8, Rep Ireland  
*J Amer Soc Brew Chemist* 1994 52 (3) 134

Determination of oxalate in beer and beer sediments using ion chromatography

### 13 ANIMAL PRODUCTS

Dion B, Ruzbie M, Van de Voort FR, Ismail AA, Blais JS\*// \*McGill Univ, Dept Food Sci & Agr Chem, 2111 Lakeshore Rd, MacDonald Campus, St Anne de Bellevue, Quebec, Canada H9X 3V9  
*Analyst* 1994 119 (8) 1765

Determination of protein and fat in meat by transmission Fourier transform infrared spectrometry

Dommett TW, Kwee WS, Vos AC// Dept Primary Ind Queensland, Int Food Inst Queensland, Hamilton, Qld 4007, Australia  
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Estimation of residual shelf life of pasteurised milk using the PCA-ANS method

Park B, Whittaker AD, Miller RK, Hale DS// USDA ARS, Instrumentat & Sensing Lab, Bldg 303, BARC E, Beltsville, Md 20705, USA  
*J Food Sci* 1994 59 (4) 697

Ultrasonic spectral analysis for beef sensory attributes

Poiana M, Mincione B// Univ Gallina, Ist Microbiol & Tecnol Agr & Forestale, Pzza S Francesco 4, I-89061 Gallina, Italy  
*Ind Aliment* 1994 33 (328) 747

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Shand PJ, Sofos JN, Schmidt GR// Univ Saskatchewan, Dept Appl Microbiol & Food Sci, Saskatoon, Saskatchewan, Canada S7N 0W0  
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Sterrenburg P// TNO, Nutr & Food Res, POB 48, 3700 AJ Zeist, The Netherlands  
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Wagner V, Schild TA, Geldermann H\*// \*Hohenheim Univ, Dept Anim Breeding, Garbenstr 17, W-7000 Stuttgart 70, FRG  
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Application of polymorphic DNA sequences to differentiate the origin of decomposed bovine meat

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Alvarez P, Malcorps P, Almeida AS, Ferreira A, Meyer AM, Dufour JP\*// \*Univ Catholique Louvain, Unite Brasserie & Ind Alimentaires, Pl Croix Sud 20, Bte 7, B-1348 Louvain, Belgium  
*J Amer Soc Brew Chemist* 1994 52 (3) 127

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Aylott RI, Clyne AH, Fox AP, Walker DA// United Distillers, Int Technol Serv, Menstrie FK11 7ES, Clackmannan, Scotland  
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Berahia T, Gaydou EM\*, Cerrati C, Wallet JC// \*Fac Sci & Tech St Jerome, Phytotech Lab, Ave Escadrille Normandie Niemen, F-13397 Marseille 20, France  
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Cliffe S, Fawer MS, Maier G, Takata K, Ritter G// EMPA, Unterstr 11, CH-9001 St Gallen, Switzerland  
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Fattohi N// Hollanderstr 66, D-13407 Berlin, FRG  
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Fukuoka M, Watanabe H, Mihori T, Shimada S// Tokyo Univ Fisheries, Dept Food Sci & Technol, Kohnan 4, Minato ku, Tokyo 108, Japan  
*J Food Eng* 1994 23 (4) 533

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Gallignani M, Garrigues S, De la Guardia M\*// \*Univ Valencia, Dept Analyt Chem, 50 Dr Moliner St, E-46100 Burjassot, Spain  
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Derivative Fourier transform infrared spectrometric determination of ethanol in beers

Hardwick BC// Anheuser Busch Inc, Tech Ctr 36-5, 1 Busch Pl, St Louis, Mo 63118, USA  
*J Amer Soc Brew Chemist* 1994 52 (3) 106

Selective measurement of acetoxy acid precursors of vicinal diketones in beer by decarboxylation with aniline hydrochloride

Iverson WG// Anheuser Busch Inc, Brewing Tech Serv, 1 Busch Pl, St Louis, Mo 63118, USA  
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Kandala CVK, Nelson SO, Lawrence KC// Univ Georgia, Dept Biol & Agr Engn, Athens, Ga 30602, USA  
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Ko HL, Henry RJ, Graham GC, Fox GP, Chadbone DA, Haak IC// Univ Queensland, Agr Biotechnol Ctr, Gehrmann Labs, Brisbane, Qld 4072, Australia  
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Lloyd WJW// Address not available.

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Lulai EC, Orr PH// USDA ARS, Red River Valley Potato Res Lab, East Grand Forks, Mn 56721, USA  
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Nelson SO, Lawrence KC// USDA ARS, Richard B Russell Agr Res Ctr, Athens, Ga 30613, USA  
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Pino JA, Torricella R, Chang L// Inst Invest Ind Alimenticia, Dept Aroma, Carretera Guatao km 3 1-2, Havana 19200, Cuba  
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Redondo A, Villanueva MJ, Rodriguez MD// Univ Complutense Madrid, Fac Farm, Dept Nutr & Bromatol 2, Ciudad Univ, E-28040 Madrid, Spain  
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Sing ASC, Smadja J, Gaydou EM, Conan JY// Univ La Reunion, Chim Organ Lab, 15 Ave Rene Cassin, 97715 St Denis 9, Reunion, France  
*Analisis* 1994 22 (6) 332

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Sontag G, Bernwieser I// Univ Vienna, Inst Analyt Chem, Wahringer Str 38, A-1090 Vienna, Austria  
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Tanimura S// Kirin Brewery Co Ltd, Div Res & Dev, Sensory Evaluat Sect, Shibuya ku, 6-26-1 Jingumae, Tokyo 150, Japan  
*J Agr Food Chem* 1994 42 (8) 1629

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Waters EJ, Peng ZK, Pocock KF, Jones GP, Clarke P, Williams PJ// Australian Wine Res Inst, POB 197, Glen Osmond, SA 5064, Australia  
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