

# Bibliography of analytical, nutritional and clinical methods

(Five weeks journals - Search completed at 12th July 1995)

## 1 BOOKS, REVIEWS & SYMPOSIA

*Ind Aliment* 1994 **33** (331) 1128

Official methods of food analysis (Meeting Report) (Italian)

Aerts MML, Hogenboom AC\*, Brinkman UAT// \*Free Univ Amsterdam, Dept Analyt Chem, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands  
*J Chromatogr B-Biomed Appl* 1995 **667** (1) 1

Analytical strategies for the screening of veterinary drugs and their residues in edible products (Review)

Uchiyama S// Food & Drug Safety Ctr, Hatano Res Ctr, Dept Food & Environm Hyg, 729-5 Ochiai, Hatano, Kanagawa 257, Japan  
*J Food Hyg Soc Jpn* 1995 **36** (2) 219

Recent world-wide advances in irradiated food and method of detection (Review) (Japanese, English Abstract)

## 2 GENERAL

Awuah GB, Ramaswamy HS\*, Simpson BK// \*McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, 21 111 Lakeshore Rd, St Anne de Bellevue, Quebec, Canada H9X 3V9

*Food Res Int* 1995 **28** (3) 261

Comparison of two methods for evaluating fluid-to-surface heat transfer coefficients

Dalgleish DG, Hallett FR// Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

*Food Res Int* 1995 **28** (3) 181

Dynamic light scattering: Applications to food systems

Reid HJ, Greenfield S, Edmonds TE\*// \*Loughborough Univ Technol, Dept Chem, Loughborough LE11 3TU, Leics, England

*Analyst* 1995 **120** (5) 1543

Investigation of decomposition products of microwave digestion of food samples

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Adamson NJ, Reynolds EC\*// \*Univ Melbourne, Sch Dent Sci, Biochem & Molec Biol Unit, 711 Elizabeth St, Melbourne, Vic 3000, Australia

*Electrophoresis* 1995 **16** (4) 525

High-performance capillary electrophoresis of casein phosphopeptides containing 2-5 phosphoserine residues: Relationship between absolute electrophoretic mobility and peptide charge and size

Addeo F, Garro G, Intorcina N, Pellegrino L, Resmini P, Chianese L// Ist Sperimentale Lattiero Caseario, Via A Lombardo 11, I-20075 Lodi, Italy

*J Dairy Res* 1995 **62** (2) 297

Gel electrophoresis and immunoblotting for the detection of casein proteolysis in cheese

Belton PS, Colquhoun IJ\*, Grant A, Wellner N, Field JM, Shewry PR, Tatham AS// \*AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England

*Int J Biol Macromol* 1995 **17** (2) 74

FTIR and NMR studies on the hydration of a high-M<sub>r</sub> subunit of glutenin

Bietz JA, Schmalzried E// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, IL 61604, USA

*Food Sci Technol-Lebensm Wiss* 1995 **28** (2) 174

Capillary electrophoresis of wheat gliadin: Initial studies and application to varietal identification

Chianese L, Mauriello R, Laezza P, Intorcina N, Moio L, Addeo F, Campus R// Univ Naples Federico II, Dipt Sci Alimenti, Parco Gussone, I-80055 Portici, Italy

*Milchwissenschaft* 1995 **50** (3) 143

Application of immunoblotting to the specific control of ovine casein fractionation

Doka O, Szollosy L, Novak A// Pannon Univ Agr Sci, Dept Phys, POB 90, H-9201 Mosonmagyaróvár, Hungary

*Acta Aliment* 1994 **23** (3) 325

Photoacoustic spectra of skim milk powder and of milk protein concentrate

El SN// Ege Univ, Engn Fac, Food Engn Dept, 35100 Bornova, Izmir, Turkey

*Food Chem* 1995 **53** (12) 209

Evaluating protein quality of meats using collagen content

Fox GP, Henry RJ// Queensland Dept Primary Ind, Barley Qual Lab, POB 2282, Toowoomba, Qld 4350, Australia

*J Inst Brew* 1995 **101** (3) 181

Analysis of water-soluble proteins from barley by ion-exchange high-performance liquid chromatography

Humbert G, Guingamp MF, Choukri A, Linden G// Univ Nancy 1, Fac Sci, INRA, Biochim Appl Lab, BP 239, F-54506 Vandoeuvre les Nancy, France

*J Dairy Res* 1995 **62** (2) 369

Method for the measurement of *N*-acetyl- $\beta$ -glucosaminidase activity in bovine milk

Kingham NM, Norris CS, Paterson GR, Otter DE\*// \*New Zealand Dairy Res Inst, Food Sci Sect, Private Bag 11029, Palmerston North, New Zealand

*J Chromatogr A* 1995 **700** (1-2) 111

Comparison of capillary electrophoresis with traditional methods to analyse bovine whey proteins

Kraic J, Horvath L, Gregova E, Zak I// Vyskumny Ustav Rastlinnej Vyroby, Bratislavská Cesta 122, Piešťany 92168, Slovakia

*Rostl Vyroba* 1995 **41** (5) 219

The standard methods of electrophoretic separation of glutenins and gliadins of wheat by SDS-PAGE and A-PAGE (Czech, English Abstract)

Legaz ME, Pedrosa MM, De Armas R, Martinez MM, Vicente C// Univ Complutense Madrid, Fac Biol, Dept Plant Physiol, E-28040 Madrid, Spain

*J Chromatogr A* 1995 **697** (1-2) 329

Soluble glycoproteins from sugar cane juice analysed by high-performance liquid chromatography and fluorescence emission

Liu HJ, Chang BY, Yan HW, Yu FH, Liu XX// Waters China Ltd, 1101-6 Asia Pacific Bldg, 8 Ya Bao Rd, Beijing, Peoples Rep China

*J AOAC Int* 1995 **78** (3) 736

Determination of amino acids in food and feed by derivatization with 6-aminoquinolyl-*N*-hydroxysuccinimidyl carbamate and reversed-phase liquid chromatographic separation

Lopez-Galvez G, Juarez M, Ramos M// CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain

*J Dairy Res* 1995 **62** (2) 311

Two dimensional electrophoresis and immunoblotting for the study of ovine whey protein polymorphism

O'Callaghan DM, Donnelly WJ, Slattery HM, Mulvihill DM// Natl Dairy Prod Res Ctr, Fermoy, Cork, Rep Ireland

*J Liq Chromatogr* 1995 **18** (8) 1543

Non-size exclusion effects during gel permeation chromatography of milk protein hydrolysates on an FPLC Superose 12 column

Recio I, Molina E, Ramos M, De Frutos M\*// \*CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain

*Electrophoresis* 1995 **16** (4) 654

Quantitative analysis of major whey proteins by capillary electrophoresis using uncoated capillaries

Reichardt W, Krauss M, Gernand U, Klauke G, Grau W// Thuringer Landesanstalt Landwirtschaft, Tierzucht Haltung & Ernährung Abt, Rennsteig 3, D-99917 Clausberg, Germany

*Nahrung* 1995 **39** (2) 139

The quantitative estimation of the protein content in milk by means of ultraviolet

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical, nutritional and clinical methods. 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.

- let spectral photometry. VII. The milk analyzer MAG 100 (Carl Zeiss Jena GmbH) as possibility for simultaneous measuring of the protein and fat content in raw milk on the dairy farm
- Roturier JM, Le Bars D, Gripon JC\*// \*INRA, Rech Laitieres Stn, F-78352 Jouy en Josas, France  
*J Chromatogr A* 1995 **696** (2) 209
- Separation and identification of hydrophilic peptides in dairy products using FMOc derivatization
- Salmanowicz BP// Polish Acad Sci, Inst Plant Genet, ul Strzeszynska 34, PL-60479 Poznan, Poland  
*Plant Syst Evol* 1995 **195** (1-2) 77
- Comparative study of seed albumins in the old-world *Lupinus* species (Fabaceae) by reversed-phase HPLC
- Sasek A, Cerny J// Vyzkumny Ustav Rostlinne Vyroby, Drnovska 507, CR-16106 Prague 6, Czech Republic  
*Rostl Vyroba* 1995 **41** (4) 163
- The model electrophoretic spectra of HMW gliadins and glutenins of common wheat varieties cultivated in the Czech Republic in 1993 (Czech, English Abstract)
- Sasek A, Cerny J// Address as above.  
*Rostl Vyroba* 1995 **41** (5) 225
- Electrophoretic spectra of gliadins and subunits of glutenins of HMW of wheat varieties deleted in the years 1982 to 1993 (Czech, English Abstract)
- Shimizu M, Watanabe A, Tanaka A// Univ Tokyo, Dept Appl Biol Chem, Div Agr & Agr Life Sci, Tokyo 113, Japan  
*Biosci Biotechnol Biochem* 1995 **59** (1) 138
- Detection of high-molecular weight mucin-like glycoprotein-A (HMGP-A) of human milk by chicken egg yolk antibody
- Shindoh N, Tanaka T, Kondo M// Nishikyushu Univ, Fac Domest Sci, Dept Food & Nutr, 4490-9 Kanzaki machi, Saga 842, Japan  
*Biosci Biotechnol Biochem* 1995 **59** (1) 108
- New cysteine fluorometric determination for vegetables and fruits based on a reaction with 2,6-dichloro-*p*-benzoquinone and using thin-layer densitometry
- Singh G// Punjab Agr Univ, Coll Vet Sci, Dept Vet Bacteriol & Virol, Ludhiana 141004, Punjab, India  
*Indian J Anim Sci* 1995 **65** (4) 388
- Determination of antibody levels in egg-yolks from laying hens vaccinated against Newcastle disease
- Van Riel J, Olieman C\*// \*NIZO, Dept Analyt Chem, POB 20, 6710 BA Ede, The Netherlands  
*Electrophoresis* 1995 **16** (4) 529
- Determination of caseinomacropptide with capillary zone electrophoresis and its application to the detection and estimation of rennet whey solids in milk and buttermilk powder
- #### 4 CARBOHYDRATES
- Bellon-Maurel V, Vallat C, Goffinet D// CEMAGREF, GEAA, BP 5095, F-34033 Montpellier 01, France  
*Appl Spectrosc* 1995 **49** (5) 556
- Quantitative analysis of individual sugars during starch hydrolysis by FT-IR/ATR spectrometry. I. Multivariate calibration study: Repeatability and reproducibility
- Bellon-Maurel V, Vallat C, Goffinet D// Address as above.  
*Appl Spectrosc* 1995 **49** (5) 563
- Quantitative analysis of individual sugars during starch hydrolysis by FT-IR/ATR spectrometry. II. Influence of external factors and wavelength parameters
- De Bruijn JM// CSM Suiker BV, Breda, The Netherlands  
*Int Sugar J* 1995 **97** (1156) 147
- Near infrared spectroscopy in the beet sugar industry
- Edye LA, Clarke MA// Sugar Proc Res Inst Inc, 1100 Robert E Lee Blvd, New Orleans, La 70124, USA  
*Zuckerindustrie* 1995 **120** (4) 284
- Application of near infrared spectroscopy to the beet sugar industry
- Foldhazi G// Univ Hort & Food Ind, Dept Food Chem & Nutr Sci, Somloi ut 14-16, H-1118 Budapest, Hungary  
*Acta Aliment* 1994 **23** (3) 299
- Analysis and quantitation of sugars in honey of different botanical origin using high-performance liquid chromatography
- Haase NU, Mintus T, Weipert D// Fed Ctr Cereal Potato & Lipid Res, Schutzenberg 12, D-32758 Detmold, Germany  
*Starch* 1995 **47** (4) 123
- Viscosity measurements of potato starch paste with the rapid visco-analyzer
- Hein W, Pollach G, Haluschan M// Zuckerforsch Tulln, Reitherstr 21-23, A-3430 Tulln, Austria  
*Zuckerindustrie* 1995 **120** (4) 289
- Considerations on the determination of sugar losses on beet storage (German, English Abstract)
- Holmes MG// New Sth Wales Agr & Fisheries, Agr Res Inst, Wagga Wagga, NSW 2650, Australia  
*J Inst Brew* 1995 **101** (3) 175
- Studies on the malting potential of barley and malt with the falling number apparatus
- Leitao MCA, Alarcao-Silva ML, Janeiro MIN, Azinheira HG// Inst Invest Cient Trop, Ctr Estudos Prod & Tecnol Agr, Apartado 3014, P-1301 Lisbon, Portugal  
*Carbohydr Polym* 1995 **26** (3) 165
- Galacturonic acid in pectic substances of sunflower head residues: Quantitative determination by HPLC
- Moonsamy N, Mochaba F, Majara M, O'Connor-Cox ESC, Axcell BC// Sth African Breweries Ltd, Brewing Res Dept, POB 782178, Sandton 2146, Rep Sth Africa  
*J Inst Brew* 1995 **101** (3) 203
- Rapid yeast trehalose measurement using near infrared reflectance spectrometry
- Prodollet J, Bruehlhart M, Lador F, Martinez C, Obert L, Blanc MB, Parchet JM// Nestec Ltd, Nestle Res Ctr, Vers Chez Les Blanc, CH-1000 Lausanne 26, Switzerland  
*J AOAC Int* 1995 **78** (3) 749
- Determination of free and total carbohydrate profile in soluble coffee
- Prodollet J, Bugner E, Feinberg M// Address as above.  
*J AOAC Int* 1995 **78** (3) 768
- Determination of carbohydrates in soluble coffee by anion-exchange chromatography with pulsed amperometric detection: Interlaboratory study
- Rouch C, Cadet F, Maillot J// Univ Reunion, Fac Sci, Biochim Lab, 15 Ave Rene Cassin, F-97489 St Denis, Reunion, France  
*Int Sugar J* 1995 **97** (1156) 154
- Storage and analysis of cane juice samples
- Wei DB, Lubrano GJ, Guilbault GG\*// \*Univ New Orleans, Dept Chem, New Orleans, La 70148, USA  
*Anal Lett* 1995 **28** (7) 1173
- Dextrose sensor in food analysis
- Yokoi Y, Matsubara C, Takamura K// Tokyo Univ Pharm & Life Sci, Sch Pharm, 1432-1 Horinouchi, Hachioji, Tokyo 19203, Japan  
*Bunseki Kagaku* 1995 **44** (5) 355
- Flow injection analysis for sugars in foods using titanium(IV)-prophyrin reagent (Japanese, English Abstract)
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- Adlof RO, Copes LC, Emken EA// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, IL 61604, USA  
*J Amer Oil Chem Soc* 1995 **72** (5) 571
- Analysis of the monoenoic fatty acid distribution in hydrogenated vegetable oils by silver ion/high-performance liquid chromatography
- Aitzetmuller K// Bundesanstalt Getreide Kartoffel & Fettforsch, Inst Chem & Phys Fette, Piusallee 76, D-48147 Munster, Germany  
*Fett Wiss Technol* 1995 **97** (4) 127
- HPLC of triglycerides: Identification of palm oils and palm oil fractions - Survey by a working party of the DGF, CXLII Report - German standard methods for investigation of fats, fatty products, tensides and related materials, CIX Report - Analysis of fats, XXXIII (German, English Abstract)
- Baadenhuijsen H, Demacker PNM, Hessels M, Boerma GJM, Penders TJ, Weykamp C, Willems HL// Univ Nijmegen St Radboud Hosp, Cent Lab Clin Chem, POB 9101, 6500 HB Nijmegen, The Netherlands  
*Clin Chem* 1995 **41** (5) 724
- Testing the accuracy of total cholesterol assays in an external quality-control program. Effect of adding sucrose to lyophilized control sera compared with use of fresh or frozen sera
- Burkow IC, Vikersveen L, Saarem K// Univ Tromso, Inst Math & Phys Sci, N-9037 Tromso, Norway  
*J Amer Oil Chem Soc* 1995 **72** (5) 553
- Evaluation of antioxidants for cod liver oil by chemiluminescence and the Rancimat method
- Caan B, Coates A, Schaffer D// Kaiser Permanente Med Care Program, Div Res, 3505 Broadway, Oakland, Ca 94611, USA  
*J Amer Diet Assn* 1995 **95** (5) 564
- Variations in sensitivity, specificity, and predictive value of a dietary fat screener modified from Bloch *et al*
- Camacho ML, Cert A// CSIC, Inst Grasa, Avda Padre Garcia Tejero 4, E-41012 Seville, Spain  
*Grasas Aceites* 1994 **45** (6) 395
- Suggestions for the application of some analytical methods included in the regulation EEC 2568/91 relative to the characteristics of the olive oils and olive pomace oils (Spanish, English Abstract)
- Fischer M, Jefferies TM\*// \*Univ Bath, Sch Pharm & Pharmacol, Claverton Down, Bath BA2 7AY, England  
*J Agr Food Chem* 1995 **43** (5) 1259

- Optimization of supercritical fluid conditions for the rapid determination of free fatty acids in soy and cottonseed meals
- Furuta S, Nishiba Y, Suda I// Minist Agr Forestry & Fisheries, Kyushu Natl Agr Expt Stn, Kumamoto 86111, Japan  
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A new method for judging deterioration of stored garden peas, an index of lipid peroxidation
- Geers R, Decanniere C, Ville H, Van Hecke P, Bosschaerts L// Katholieke Univ Leuven, Agr Bldg Res Lab, B-3001 Louvain, Belgium  
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Variability within intramuscular fat content of pigs as measured by gravimetry, FTIR and NMR spectroscopy
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*Rapid Commun Mass Spectrom* 1995 **9** (6) 491  
Negative electrospray ionization mass spectrometry analysis of gangliosides, sulphatides and cholesterol 3-sulphate
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*Free Radical Res* 1995 **22** (5) 441  
Detection of aldehydes and their conjugated hydroperoxydiene precursors in thermally-stressed culinary oils and fats: Investigation using high resolution proton NMR spectroscopy
- Ishiguro T, Adachi S, Matsuno R// Kyoto Univ, Fac Agr, Dept Food Sci & Technol, Sakyo ku, Kyoto 60601, Japan  
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Thermogravimetric analysis of cyclodextrin/fatty acid complex formation and its use for predicting suppressed autoxidation of fatty acids
- King JW// USDA ARS, Natl Ctr Agr Utilizat Res, Food Qual & Safety Res Unit, 1815 Nth Univ St, Peoria, IL 61604, USA  
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Determination of the solubility parameter of soybean oil by inverse gas chromatography
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*J Agr Food Chem* 1995 **43** (5) 1122  
Evaluation of solid phase extraction and gas chromatography for determination of cholesterol oxidation products in spray-dried whole egg
- Lancas FM, Queiroz MEC, Silva ICE// Univ Sao Paulo, Inst Quim, Cx Postal 369, BR-13560-970 Sao Carlos, SP, Brazil  
*Chromatographia* 1995 **40** (7-8) 421  
Simplex optimization of extraction of soybean oil by supercritical pentane
- Leray C, Grcic T, Gutbier G, Bnouham M// Ctr Ecol & Physiol Energet, CNRS, 23 rue Becquerel, F-67087 Strasbourg, France  
*Analisis* 1995 **23** (2) 65  
Microwave oven extraction procedure for lipid analysis in biological samples
- Lin JT, McKeon TA, Stafford AE// USDA, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA  
*J Chromatogr A* 1995 **699** (1-2) 85  
Gradient reversed-phase high-performance liquid chromatography of saturated, unsaturated and oxygenated free fatty acids and their methyl esters
- Michel C, David A, Lahaye M, Barry JL// INRA, Ctr Nantes, BP 1627, F-44316 Nantes 03, France  
*Sci Aliment* 1995 **15** (2) 167  
Gas chromatographic determination of volatile fatty acids in 80% ethanol
- Nauck M, Winkler K, Wittmann C, Mayer H, Luley C, Marz W, Wieland H// Univ Hosp Freiburg, Dept Med, Div Clin Chem, Hugstetter Str 55, D-79106 Freiburg, Germany  
*Clin Chem* 1995 **41** (5) 731  
Direct determination of lipoprotein(a) cholesterol by ultracentrifugation and agarose gel electrophoresis with enzymatic staining for cholesterol
- Overton SV, Manura JJ// Sci Instrument Serv Inc, 1027 Old York Rd, Ringoes, NJ 08551, USA  
*J Agr Food Chem* 1995 **43** (5) 1314  
Analysis of volatile organics in cooking oils by thermal desorption gas chromatography/mass spectrometry
- Plank C, Lorbeer E// Univ Vienna, Inst Organ Chem, Währingerstr 38, A-1090 Vienna, Austria  
*J Chromatogr A* 1995 **697** (1-2) 461  
Simultaneous determination of glycerol, and mono, di- and triglycerides in vegetable oil methyl esters by capillary gas chromatography
- Powers L, Osborn MK, Yang DW, Kien CL, Murray RD, Beylot M, Brunen-graber H\*// \*Case Western Reserve Univ, Dept Nutr, Cleveland, Oh 44106, USA  
*J Mass Spectrometry* 1995 **30** (5) 747  
Assay of the concentration and stable isotope enrichment of short-chain fatty acids by gas chromatography/mass spectrometry
- Ratnayake WMN// Dept Hlth & Welf, Hlth Protect Branch, Food Directorate, Div Nutr Res, Ottawa, Ontario, Canada K1A 0L2  
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Determination of *trans* unsaturation by infrared spectrophotometry and determination of fatty acid composition of partially hydrogenated vegetable oils and animal fats by gas chromatography/infrared spectrophotometry: Collaborative study
- Sheaff RC, Su HM, Keswick LA, Brenna JT\*// \*Cornell Univ, Div Nutr Sci, Ithaca, NY 14853, USA  
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Conversion of  $\alpha$ -linolenate to docosahexaenoate is not depressed by high dietary levels of linoleate in young rats: Tracer evidence using high precision mass spectrometry
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Direct measurement of high-density lipoprotein cholesterol in serum with polyethylene glycol-modified enzymes and sulfated  $\alpha$ -cyclodextrin

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Selective spectrophotometric determination of ascorbic acid in drugs and foods
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- Astier A, Baud FJ// CHU Henri Mondor, Serv Pharm, Toxicol Lab, F-94010 Creteil, France  
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Simultaneous determination of hydroxocobalamin and its cyanide complex cyanocobalamin in human plasma by high-performance liquid chromatography. Application to pharmacokinetic studies after high-dose hydroxocobalamin as an antidote for severe cyanide poisoning
- Ballesteros E, Gallego M, Valcarcel M\*// \*Univ Cordoba, Fac Sci, Dept Analyt Chem, E-14004 Cordoba, Spain  
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Gas chromatographic flow method for preconcentration and determination of vitamins D<sub>2</sub> and D<sub>3</sub> in pharmaceutical preparations
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- Ibanez E, Tabera J, Reglero G, Herraiz M\*// \*CSIC, Inst Fermentac Ind, Juan Cierva 3, E-28006 Madrid, Spain  
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*Int J Vitam Nutr Res* 1995 **65** (1) 31  
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*J Agr Food Chem* 1995 **43** (5) 1212  
HPLC separation of geometric carotene isomers using a calcium hydroxide stationary phase
- Siddiqui FQ, Malik F, Fazli FRY// NIH, Div Drugs Control & Tradit Med, Islamabad, Pakistan  
*J Chromatogr B-Biomed Appl* 1995 **666** (2) 342  
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- Vinci G, Botre F, Mele G, Ruggieri G// \*Univ Roma La Sapienza, Inst Merceol, Via Castro Laurenziano 9, I-00161 Rome, Italy  
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- Yakushina L, Taranova A// Russian Acad Med Sci, Inst Nutr, Ustinsky pr 2-14, Moscow 109240, Russia  
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Rapid HPLC simultaneous determination of fat-soluble vitamins, including carotenoids, in human serum
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