

Contents of Volume 55

Number 1

RAPID COMMUNICATIONS

- 1 Kinetics of transport of benzoic acid in emulsions
B. L. WEDZICHA & C. COUET (UK)
- 7 Review of chemiluminescent methods in food analysis
M. J. NAVAS & A. M. JIMÉNEZ (Spain)
- 17 Sensitive determination of ethanol in low-alcohol samples by ion-exclusion chromatography with EC detection using a ruthenium-based inorganic film electrode
T. R. I. CATALDI, D. CENTONZE & E. DESIMONI (Italy)

GENERAL PAPERS

- 23 The fate of thiamin and riboflavin during the preparation of couscous
N. RAHMANI & H. G. MULLER (UK)
- 29 Chemical and physical characteristics of palm, palm kernel and groundnut oils as affected by degumming
C. I. IWUOHA, C. N. UBBAONU, R. C. UGWO & N. U. OKEREKE (Nigeria)
- 35 Fractionation and identification of the phenolic compounds of Highbush blueberries (*Vaccinium corymbosum*, L.)
F. KADER, B. ROVEL, M. GIRARDIN & M. METCHE (France)
- 41 The combined effect of tocopherols, L-ascorbyl palmitate and L-ascorbic acid on the development of warmed-over flavour in cooked, minced turkey
L. BRUUN-JENSEN, I. M. SKOVGAARD, E. A. MADSEN, L. H. SKIBSTED & G. BERTELSEN (Denmark)
- 49 Relationships between the textural changes and the contents of calcium, magnesium ions, and non-freezing water in the alcohol-insoluble solids of snap bean pods during cooking processes
C.-Y. CHANG, H.-J. LIAO & T.-P. WU (ROC)
- 55 Non-enzymatic protein induced hydrolysis of *p*-nitrophenyl acyl esters in relation to lipase/esterase assays
H. ØSTDAL & H. J. ANDERSEN (Denmark)

ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION

- 63 An isocratic reversed-phase HPLC separation of the stereoisomers of the provitamin A carotenoids (α - and β -carotene) in dark green vegetables
H. NYAMBAKA & J. RYLEY (UK)
- 73 Capillary electrophoresis in food analysis
J. LINDBERG (Sweden)
- 95 Addendum to 'Capillary electrophoresis in food analysis'
J. LINDBERG (Sweden)
- 103 Bibliography of analytical, nutritional and clinical methods
- 109 Book review
- 110 Erratum

Number 2

RAPID COMMUNICATON

- 111 A simple technique for the detection of red wine adulteration with elderberry pigments
P. BRIDLE (UK) & C. GARCÍA-VIGUERA (Spain)

GENERAL PAPERS

- 115 The role of ashes and sodium bicarbonate in a simulated meat product from chikanda tuber (*Satyria siva*)
M. T. KAPUTO (Zambia)
- 121 Drying models for green peas
S. SIMAL, A. MULET, J. TARRAZO & C. ROSSELLÓ (Spain)
- 129 Factors affecting milk clotting activity of sweet leavening extract involved in coagulation of a yoghurt-like product
C.-Y. KUO, F.-S. WANG & C.-W. LIN (China)
- 133 Purification and characterization of a basic peroxidase isoenzyme from strawberries
M. LÓPEZ-SERRANO & A. ROS BARCELÓ (Spain)
- 139 Cultivation of *Pleurotus* spp. on various agro-residues
R. RAGUNATHAN, R. GURUSAMY, M. PALANISWAMY & K. SWAMINATHAN (India)
- 145 Odour-active compounds in moderately roasted sesame
P. SCHIEBERLE (Germany)
- 153 Chlorine and ozone washes for pesticide removal from apples and processed apple sauce
K. C. ONG, J. N. CASH, M. J. ZABIK, M. SIDDIQ & A. L. JONES (USA)
- 161 Studies on *Volvariella esculenta* (Mass) Singer: cultivation on agricultural wastes and proximate composition of stored mushrooms
I. O. FASIDI (Nigeria)
- 165 Growth requirements of *Volvariella speciosa* (Fr. ex. Fr.) Sing., a Nigerian mushroom
I. O. FASIDI & D. O. AKWAKWA (Nigeria)
- 169 Chemical and biochemical aspects of developing culinary banana (*Musa ABB*) 'Kachka'
B. GOSWAMI & A. BORTHAKUR (India)
- 173 Effect of soaking, cooking and autoclaving on phytic acid and oligosaccharide contents of the tribal pulse, *Mucuna monosperma* DC. ex. Wight
K. VIJAYAKUMARI, P. SIDDHURAJU & K. JANARDHANAN (India)

ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION

- 179 Chemically determined total and available methionine in beans (*Phaseolus vulgaris* L.) and isolated protein fractions
U. M. LANFER MARQUEZ, R. M. C. BARROS & F. M. LAJOLO (Brazil)
- 185 Benzo(a)pyrene in olive oils on the Brazilian market
A. M. PUPIN & M. C. F. TOLEDO (Brazil)
- 189 Application of discriminant analysis to physico-chemical variables for characterizing Spanish cheeses
R. MILLÁN, P. SAAVEDRA, E. SANJUÁN & M. CASTELO (Spain)
- 193 Bibliography of analytical, nutritional and clinical methods
- 201 Announcement

Number 3**GENERAL PAPERS**

- 203 Composition of green coffee water-soluble fractions and identification of volatiles formed during roasting
C. A. B. DE MARIA, L. C. TRUGO, F. R. AQUINO NETO, R. F. A. MOREIRA & C. S. ALVIANO (Brazil)
- 209 Physicochemical studies of starch from foxtail millet (*Setaria italica* Beauv.)
S. FUJITA, Y. SUGIMOTO, Y. YAMASHITA & H. FUWA (Japan)
- 215 Methods of extraction composition and stability of vitamin A and other components in dogfish (*Squalus acanthias*) liver oil
SUNARYA (Indonesia), M. HOLE & K. D. A. TAYLOR (UK)
- 221 Determination of protein quality of rainbow trout (*Salmo irideus*) by *in vitro* protein digestibility-corrected amino acid score (PDCAAS)
S. N. EL & A. KAVAS (Turkey)
- 225 Characterization and biochemical changes during the ripening of a Spanish craft goat's milk cheese (Armada variety)
J. M. FRESNO, M. E. TORNADIJO, J. CARBALLO, J. GONZÁLEZ-PRIETO & A. BERNARDO (Spain)
- 231 Pesticide residues, PCBs and PAHs in baked, charbroiled, salt boiled and smoked Great Lakes lake trout
M. E. ZABIK, A. BOOREN, M. J. ZABIK, R. WELCH & H. HUMPHREY (USA)
- 241 Influence of prefermentation clarification on the higher alcohol contents of wines
C. ANCÍN, B. AYESTARÁN, M. CORROZA, J. GARRIDO & A. GONZÁLEZ (Spain)
- 251 Study of the components of a solid smoke flavouring preparation
M. D. GUILLÉN & M. J. MANZANOS (Spain)
- 259 Starch–galactomannan interactions: functionality and rheological aspects
V. SUDHAKAR, R. S. SINGHAL & P. R. KULKARNI (India)
- 265 Synthesis and taste analysis of iminylsulfamates (hydrazonylsulfonates) of *N*-benzaldehyde *N*-acetophenone, *N*-benzophenone and *N*-isobutyrophenone
W. J. SPILLANE & M. R. WALSH (Ireland)
- 271 The unexpected behaviour of 1,5-glucono- δ -lactone-induced myosin gels upon dialysis
T. M. NGAPO, B. H. P. WILKINSON & R. CHONG (New Zealand)

ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION

- 281 Chemometric classification of honeys according to their type based on quality control data
B. LÓPEZ, M. J. LATORRE, M. I. FERNÁNDEZ, M. A. GARCÍA, S. GARCÍA & C. HERRERO (Spain)
- 289 Determination of optimum conditions for pectinesterase extraction from soursop fruit (*Anona muricata*) using response surface methodology
S. M. ARBAISAH, B. A. ASBI, A. H. JUNAINAH & B. JAMILAH (Malaysia)
- 293 Hydride generation atomic absorption spectrometric (HGAAS) determination of selenium in term and preterm infant formulae available in the United Kingdom
L. H. FOSTER & S. SUMAR (UK)
- 299 The determination of the sulphite content of some foods and beverages by capillary electrophoresis
V. C. TRENERRY (Australia)
- 305 Non-invasive and non-destructive percutaneous analysis of farmed salmon flesh by near infra-red spectroscopy
G. DOWNEY (Ireland)
- 313 Bibliography of analytical, nutritional and clinical methods

Number 4**GENERAL PAPERS**

- 319 Cyanogen removal from cassave roots during sun-drying
A. J. ALEXANDER ESSERS, R. M. VAN DER GRIFT & A. G. J. VORAGEN (The Netherlands)
- 327 Unsaturated fatty acid bioconversion by apple pomace enzyme system. Factors influencing the production of aroma compounds
A. M. ALMOSNINO, M. BENSOUSSAN & J. M. BELIN (France)
- 333 Relationship between theoretical and experimentally detected tannin content of common beans (*Phaseolus vulgaris* L.)
H. GUZMÁN-MALDONADO, J. CASTELLANOS & E. GONZÁLEZ DE MEJÍA (México)
- 337 Vapour pressure of SO₂ above solutions of sulphur(IV) oxospecies: the effects of chloride ion and glycerol
B. L. WEDZICHA & P. P. WEBB (UK)
- 343 Preparation of modified fats from vegetable oil and fully hydrogenated vegetable oil by randomization with alkali catalysts
Š. SCHMIDT, S. HURTOVÁ, J. ZEMANOVIČ, S. SEKRETÁR, P. ŠIMON (Slovakia) & P. AINSWORTH (UK)
- 349 Molecular motion of a water-soluble nitroxyl radical in gelatin gels
D. G. GILLIES, L. H. SUTCLIFFE, X. WU & P. S. BELTON (UK)
- 353 Non-enzymatic browning in hydrolysed concentrated cheese whey permeate
L. BERTELLI, D. TORREGGIANI & G. BERTOLO (Italy)
- 359 Formation of thiazolidine-4-carboxylic acid (thioprolin), an effective nitrite-trapping agent in human body, in *Parkia speciosa* seeds and other edible leguminous seeds in Thailand
W. SUVACHITTANONT (Thailand), Y. KURASHIMA, H. ESUMI & M. TSUDA (Japan)
- 365 Antioxidant vitamin content of spice red pepper (paprika) as affected by technological and varietal factors
H. G. DAOOD, M. VINKLER, F. MÁRKUS, E. A. HEBSHI & P. A. BIACS (Hungary)
- 373 Hydrolytic characteristics of chitosan-immobilized As 1.398 neutral proteinase (from *B. subtilis*) to soybean protein
M.-L. GUO, Y.-M. JIANG, Z.-L. MA & Y.-L. LI (People's Republic of China)
- 379 Effect of γ -irradiation and post-irradiation cooking on thiamine, riboflavin and niacin contents of grass prawns (*Penaeus monodon*)
K.-F. LEE & L.-B. HAU (People's Republic of China)
- 383 Triglyceride composition of fresh ham fat from Iberian pigs produced with different systems of animal nutrition
I. DÍAZ, J. A. GARCÍA REGUEIRO, M. CASILLAS & E. DE PEDRO (Spain)

ANALYTICAL FOOD, NUTRITIONAL AND CLINICAL METHODS SECTION

- 389 Determination of the adulteration of butter fat by its triglyceride composition obtained by GC. A comparison of the suitability of PLS and neural networks
M. LIPP (Italy)
- 397 Determination of calcium, magnesium, sodium and potassium in wines by FIA using an automatic zone sampling system
R. A. S. LAPA, J. L. F. C. LIMA & J. L. M. SANTOS (Portugal)
- 403 HPLC quantification of the dihydrochalcones, aspalathin and nothofagin in rooibos tea (*Aspalathus linearis*) as affected by processing
E. JOUBERT (South Africa)
- 413 A multi-enzyme bioelectrode for the rapid determination of total lactate concentration in tomatoes, tomato juice and tomato paste
F. MAZZEI, A. AZZONI, B. CAVALIERI, F. BOTRÈ & C. BOTRÈ (Italy)
- 419 Bibliography of analytical, nutritional and clinical methods