

# Food Chemistry

*Papers Published in Volumes 35–38*

## CONTENTS OF VOLUME 35

*Number 1*

The Surface-Active Properties of Muscle Proteins . . . . .	1
EILEEN O'NEILL, P. A. MORRISSEY & D. M. MULVIHILL (Republic of Ireland)	
Chlorogenic Acids and Purine Alkaloids Contents of Maté ( <i>Ilex paraguariensis</i> ) Leaf and Beverage . . . . .	13
MICHAEL N. CLIFFORD (UK) & JOSE R. RAMIREZ-MARTINEZ (Venezuela)	
A Study of the Ascorbic Acid Intake of Children and Aged People in Selected Rural, Sub-urban and Urban Locations in Northern Nigeria . . . . .	23
J. A. ABALAKA, H. O. AKANYA & S. A. GARBA (Nigeria)	
Effect of Roasting Process Variables on In-Vitro Protein Digestibility on Bengalgram, Maize and Soybean . . . . .	31
P. P. SRIVASTAV, H. DAS & SITARAM PRASAD (India)	
A Rapid Method for the Determination of Fat in Foodstuffs by Infrared Spectrometry . . . . .	39
D. A. CRONIN & K. MCKENZIE (Republic of Ireland)	
Determination of Methyl 2-Benzimidazolecarbamate in Fruit Juices by Immunoassay RODNEY J. BUSHWAY, SHARON A. SAVAGE & BRUCE S. FERGUSON (USA)	51
Levels of Aluminium in Green Leaf of Clonal Teas, Black Tea and Black Tea Liquors, and Effects of Rates of Nitrogen Fertilizers on the Aluminium Black Tea Contents . . . . .	59
PHILIP O. OWUOR, FRANCIS O. GONE, DAVID B. ONCHIRI & ISAAC O. JUMBA (Kenya)	

- Dye-Binding 'Stoichiometry' and Selectivity of Cresol Red with Various Proteins 69  
**I. MOLNÁR-PERL, M. PINTÉR-SZAKÁCS &  
 D. MEDZIHRADESKY (Hungary)**

*Number 2*

- Effect of Cooking on the Antinutritional Factors of Lima Beans (*Phaseolus lunatus*) 81  
**I. A. EGBE & I. O. AKINYELE (Nigeria)**

- Chemical Characterization of Proteases Extracted from Wild Thistle (*Cynara cardunculus*) . . . . . 89  
**ROLANDO CAMPOS, RICARDO GUERRA, MARLENE AGUILAR,  
 ORO VENTURA & LAVINIA CAMACHO (Chile)**

- Effect of Mango (*Mangifera indica* L.) Seed Kernels Pre-extract on the Oxidative Stability of Ghee . . . . . 99  
**S. S. PARMAR & R. S. SHARMA (India)**

- Enzymatic Determinations of Glucose, Sucrose and Maltose in Food Samples by Flow Injection Analysis . . . . . 109  
**S. M. TZOUWARA-KARAYANNI & S. R. CROUCH (USA)**

- The Application of HPLC to the Determination of Low Molecular Weight Sugars and Polyhydric Alcohols in Foods: A Review . . . . . 117  
**G. F. M. BALL (UK)**

**Research Note**

- Comparison of Methods for Determination of High Water Activities. Application to Dairy Products and Juices . . . . . 153  
**M. A. ESTEBAN, M. ALCALÁ, A. MARCOS &  
 J. FERNÁNDEZ-SALGUERO (Spain)**

- Letter to the Editors . . . . . 159

*Number 3*

- The Effect of Germination on the Oligosaccharides, Trypsin Inhibitors and Nutrient Content of Cowpea Milk . . . . . 161  
**I. A. ABUDU & I. O. AKINYELE (Nigeria)**

- A Data Processing Method for the Determination of the Concentration of the Components of Unsaponifiable Matter in Vegetable Oils . . . . . 167  
**A. M. F. ABOU HADEED, A. R. KOTB (Qatar) & C. E. J. DANIELS (UK)**

- Equations for Calculation of Water Activity in Cheese from its Chemical Composition: A Review . . . . . 179  
**M. A. ESTEBAN & A. MARCOS (Spain)**

Assessment of the Saponification Step in the Quantitative Determination of Carotenoids and Provitamins A . . . . .	187
MIEKO KIMURA, DELIA B. RODRIGUEZ-AMAYA & HELENA T. GODOY (Brazil)	
Aluminium Content of Egyptian Breads . . . . .	197
FELIB Y. ISKANDER, KAREN R. DAVIS (USA), HUSSEIN ASHOUR & HASSAN F. HASSAN (Egypt)	
Effects of Gamma Irradiation and Temperature on Sugar and Vitamin C Changes in Five Indian Potato Cultivars During Storage . . . . .	209
M. R. JOSHI, A. N. SRIRANGARAJAN & PAUL THOMAS (India)	
Histamine and Tyramine in Spanish Wines: Relationships with Total Sulfur Dioxide Level, Volatile Acidity and Malo-lactic Fermentation Intensity . . . . .	217
M. C. VIDAL-CAROU, R. CODONY-SALCEDO & A. MARINÉ-FONT (Spain)	
<b>Technical Note</b>	
Studies on Tropical Vegetables. Part 1: Seed Amino, Fatty Acid and Glucosinolate Profile of Ethiopian Mustards ( <i>Brassica carinata</i> Braun) . . . . .	229
N. A. MNZAVA (Zambia) & K. OLSSON (Sweden)	
Biosynthesis of Lectins in Developing Seeds of Common Bean . . . . .	237
O. PAREDES-LÓPEZ, F. GUEVARA-LARA & A. P. BARBA DE LA ROSA (Mexico)	
<i>Number 4</i>	
The Plastein Reaction Revisited: Evidence for a Purely Aggregation Reaction Mechanism . . . . .	243
ANTHONY T. ANDREWS & EFSTATHIOS ALICHANIDIS (UK)	
Electrophoretic Analysis of Proteins from Chicken after Irradiation and during Cold Storage . . . . .	263
IBRAHIM M. HASSAN (Egypt)	
Effect of Different Treatments on Keeping Quality of Pearl Millet Flour . . . . .	277
RASHMI KAPOOR & AMIN C. KAPOOR (India)	
Studies on Tropical Vegetables. Part 2: Amino and Fatty Acid Composition in Seed of Cleome ( <i>Gynandropsis gynandra</i> L. Briq) Selections from Zambia . . . . .	287
N. A. MNZAVA (Zambia)	
Lipid Oxidation in Muscle Foods: A Review . . . . .	295
D. LADIKOS & V. LOUGOVOIS (UK)	
Compositional and Protein Digestibility Changes in Maize ( <i>Z. mays</i> ) and Cowpea ( <i>V. unguiculata</i> ) after Storage at Ambient Conditions . . . . .	315
A. O. ONIGBINDE & I. O. AKINYELE (Nigeria)	

CONTENTS OF VOLUME 36

Number 1

Migration of Dioctylphthalate and Dioctyladipate Plasticizers from Polyvinylchloride Films into Olive Oil . . . . .	1
E. KONDYLI, P. G. DEMERTZIS & M. G. KONTOMINAS (Greece)	
Characterization of Mutagenic Compound(s) in Heated Orange Juice . . . . .	11
INDRIATI EKASARI, H. E. BERG, W. M. F. JONGEN & W. PILNIK (The Netherlands)	
Phenolase in Norway Lobster ( <i>Nephrops norvegicus</i> ): Activation and Purification . . . . .	19
XINJIAN YAN, K. D. ANTHONY TAYLOR & STEVEN W. HANSON (UK)	
Evaluation of the Nutritional Quality of Flakes made of Banana Pulp and Full-Fat Soya Flour . . . . .	31
JENNY RUALES (Sweden), PABLO PÓLIT (Ecuador) & BABOO M. NAIR (Sweden)	
The Determination of Starch in Composite Foodstuffs by High-Performance Liquid Chromatography . . . . .	45
N. P. BOLEY & M. J. S. BURN (UK)	
Oligosaccharide Composition and Trypsin Inhibitor Activity of <i>P. vulgaris</i> and the Effect of Germination on the $\alpha$ -Galactoside Composition and Fermentation in the Human Colon . . . . .	53
L. C. TRUGO, L. A. RAMOS, N. M. F. TRUGO & M. C. P. SOUZA (Brazil)	
Effect of Domestic Processing and Cooking Methods on the Contents of Carbohydrates of Amphidiploids (Black Gram $\times$ Mung Bean) . . . . .	63
A. KATARIA, B. M. CHAUHAN & D. PUNIA (India)	
Peptide Composition of Enzyme-Treated Cheddar Cheese Slurries, Determined by Reverse Phase High Performance Liquid Chromatography . . . . .	73
A. J. CLIFFE & B. A. LAW (UK)	
Book Reviews . . . . .	81

Number 2

Nutritive Values of Sun-Dried <i>Esomus danricus</i> and Smoked <i>Lepidocephalus guntea</i> . . . . .	89
M. BIJEN SINGH, CH. SAROJNALINI & W. VISHWANATH (India)	
Headspace Volatiles and Sensory Characteristics of Earthy, Musty Flavoured Potatoes . . . . .	97
G. MAZZA & E. M. PIETRZAK (Canada)	

*Food Chemistry—Vols 35–38*

The Effect of Neutral and Oxidized Lipids on Functionality in Hake ( <i>Merluccius merluccius</i> L.): A Dimethylamine- and Formaldehyde-Forming Species During Frozen Storage . . . . .	113
M. CARECHE & M. TEJADA (Spain)	
Iron Bioavailability from its Complex with Sucrose . . . . .	129
P. RAUCH, K. KÁŠ & M. RANNÝ (Czechoslovakia)	
Headspace of Roasted Ground Coffee as an Indicator of Storage Time . . . . .	135
HEIKKI KALLIO, MERJA LEINO, KARLA KOULLIAS, SINIKKA KALLIO & JUKKA KAITARANTA (Finland)	
<b>Technical Notes</b>	
Specific Effect of Phosphate on the Functional Properties and Yield of Buffalo Meat Patties . . . . .	149
A. S. R. ANJANEYULU, N. SHARMA & N. KONDAIAH (India)	
Fatty Acid and Amino Acid Composition of African Oil Beans ( <i>Pentaclethra Macrophylla</i> ) . . . . .	155
E. O. UDOSEN (Nigeria) & E. T. IFON (USA)	
Book Reviews . . . . .	161

*Number 3*

Stability of Copper and Magnesium Chlorophylls . . . . .	165
P. A. BOBBIO & M. C. GUEDES (Brazil)	
Evaluation of the Proteolytic and Lipolytic Activity of Different <i>Penicillium roqueforti</i> Strains . . . . .	169
S. M. FARAHAT, A. M. RABIE & A. A. FARAG (Egypt)	
Chemical and Amino Acid Composition of Four Traditional Foods Consumed in the Arab Gulf States . . . . .	181
A. O. MUSAIGER (Bahrain), I. S. AL-MOHIZEA, M. A. AL-KANHAL (Saudi Arabia) & J. H. JAIDAH (Bahrain)	
Digestion of Cooked Starches from Different Food Sources by Porcine $\alpha$ -Amylase . . . . .	191
R. M. FAULKS & A. L. BAILEY (UK)	
Physico-chemical Changes in African Mango ( <i>Irvingia gabonensis</i> ) during Normal Storage Ripening . . . . .	205
JOHNSON O. AINA (Nigeria)	
Flow Analysis of Lactose and Glucose in Milk with an Improved Electrochemical Biosensor . . . . .	213
R. PILLOTON & M. MASCINI (Italy)	
Influence of Processing and Cooking on the Retention of Thiamine, Riboflavin and Niacin in Spaghetti . . . . .	223
E. WATANABE (UK) & C. F. CIACCO (Brazil)	

*Food Chemistry—Vols 35–38*

**Technical Note**

- Variability of  $\beta$ -Carotene Content in Cassava Germplasm . . . . . 233  
S. N. MOORTHY, J. S. JOS, R. B. NAIR & M. T. SREEKUMARI (India)

- Book Reviews . . . . . 237

*Number 4*

- Possible Locality of Affinitive Site(s) on Cellulose for Preservation of Stable Red Colour of Carthamin . . . . . 243  
KOSHI SAITO (Japan)

- Methionine Oxidation in Commercially and Experimentally Produced Fish Meals 253  
HERBORG HAALAND & LEIF R. NJAA (Norway)

- Functional Properties of Precooked Taro Flour in Sorbets . . . . . 261  
G. P. HONG & K. W. NIP (USA)

- Some Aspects of the Biochemistry and Nutritive Value of African Yambean Seed (*Sphenostylis stenocarpa*) . . . . . 271  
D. F. APATA & A. D. OLOGHOBO (Nigeria)

- Confirmation of the Structure of Papaya  $\beta$ -Cryptoxanthin Monoepoxide . . . 281  
HELENA T. GODOY, DELIA B. RODRIGUEZ-AMAYA (Brazil),  
ANN E. CONNOR & GEORGE BRITTON (UK)

- Effect of Fermentation by Pure Cultures of Yeasts and Lactobacilli on the Available Carbohydrate Content of Pearl Millet . . . . . 287  
NEELAM KHETARPAUL & B. M. CHAUHAN (India)

- Investigation by Fractional Crystallization of Classes of Compounds Formed During Frying of Vegetable Oils . . . . . 295  
M. TASIOULA-MARGARI, M. KOMAITIS &  
M. G. KONTOMINAS (Greece)

- Agarose Gel Isoelectric Focusing of Gliadins in the Presence of Ethanol . . . 305  
UNNA STENRAM, FERNANDO ACEVEDO &  
MÄRTHA LARSSON-RAZNIKIEWICZ (Sweden)

**Technical Note**

- The Quality of Some Locally Processed Nigerian Palm Oils: An Estimation of Some Critical Processing Variables . . . . . 311  
V. A. ALETOR, G. A. IKHENA & V. EGHAREVBA (Nigeria)

**CONTENTS OF VOLUME 37**

*Number 1*

- Standard Potential of the Silver–Silver Chloride Electrode and Mean Activity Coefficient of Hydrochloric Acid in 10 Wt% Sucrose/Water from 0 to 25°C . . 1  
D. RICHARD WHITE, JR (USA)

*Food Chemistry—Vols 35–38*

Headspace Volatiles from Heated Pork Fat . . . . .	13
A. YASUHARA & T. SHIBAMOTO (USA)	
Dietary Fiber Composition of Common Vegetables and Fruits in Malaysia . . . . .	21
H. OSMAN (Malaysia)	
Plucking Standard Effects and the Distribution of Fatty Acids in the Tea ( <i>Camellia sinensis</i> (L.) Leaves . . . . .	27
PHILIP O. OWUOR, RAPHAEL M. MUNAVU & JOHN W. MURITU (Kenya)	
A Relationship Between Triglycerides and Grape-Ripening Indices . . . . .	37
L. J. R. BARRON & G. SANTA-MARÍA (Spain)	
The Effects of Fertilization and Manuring on the Content of Some Nutrients in Potato (var. Provita) . . . . .	47
T. S. SRIKUMAR & P. A. ÖCKERMAN (Sweden)	
Proximate and Amino Acid Composition of Cowpea ( <i>Vigna unguiculata</i> , Walp) Protein Concentrate Prepared by Isoelectric Point Precipitation . . . . .	61
C. Y. AREMU (Nigeria)	
Improvement in HCl-Extractability of Minerals from Pearl Millet by Natural Fermentation . . . . .	69
NEELAM KHETARPAUL & B. M. CHAUHAN (India)	
Book Reviews . . . . .	77

*Number 2*

Aluminium Concentrations in Infant Formulae . . . . .	81
DAVID C. WOOLLARD, JOHN PYBUS & GERALD A. WOOLLARD (New Zealand)	
A New Interpretation of Proton NMR Relaxation Time Measurements of Water in Food . . . . .	95
B. P. HILLS, S. F. TAKACS & P. S. BELTON (UK)	
Naringin Content in Local Citrus Fruits . . . . .	113
SALMAH YUSOF, HASANAH MOHD GHAZALI & GAN SWEE KING (Malaysia)	
Changes in the Carbohydrates and Proteins of Coconut during Roasting . . . . .	123
A. JAYALEKSHMY & A. G. MATHEW (India)	
Analysis of Liquid Smoke and Smoked Meat Volatiles by Headspace Gas Chromatography . . . . .	135
R. WITTKOWSKI, W. BALTES (Germany) & W. G. JENNINGS (USA)	

*Food Chemistry—Vols 35–38*

Aflatoxin Contamination in Some Nigerian Feeds and Feedingstuffs: Highlights of Some Nutritional, Physiopathological and Economic Implications . . . . .	145
VALENTINE A. ALETOR (Nigeria)	

Book Reviews . . . . .	155
------------------------	-----

*Number 3*

Derivatives of Sorbic Acid–Thiol Adducts . . . . .	159
G. D. KHANDELWAL & B. L. WEDZICHA (UK)	

Some Antinutritional Factors in Rice Bean ( <i>Vigna umbellata</i> ): Effects of Domestic Processing and Cooking Methods . . . . .	171
DEEPINDER KAUR & AMIN C. KAPOOR (India)	

Nutrient Losses During and After Processing of Pineapples and Oranges . . . . .	181
I. O. AKINYELE, O. O. KESHINRO & O. O. AKINNAWO (Nigeria)	

New Extruded Products from Sorghum . . . . .	189
AYYAT. M. M. YOUSSEF, Y. G. MOHARRAM, E. K. MOUSTAFFA (Egypt), H. BOLLING, A. EL-BAYA & A. E. HARMUTH (FRG)	

Detection of Pork in Processed Meat: Experimental Comparison of Methodology . . . . .	201
WAJIH N. SAWAYA, T. SAEED, M. MAMEESH, E. EL-RAYES, A. HUSAIN, S. ALI & ABDUL RAHMAN (Kuwait)	

Characterization of Lupin Seed Lipase . . . . .	221
LUIS C. SANZ & JOSE M. OLIAS (Spain)	

**Technical Note**

Chemical Estimation of Some Inorganic Elements in Selected Tropical Fruits and Vegetables . . . . .	229
C. Y. AREMU & E. I. UDOESSIEN (Nigeria)	

Book Reviews . . . . .	235
------------------------	-----

*Number 4*

Histamine and Tyramine in Meat Products: Relationship with Meat Spoilage . . . . .	239
M. C. VIDAL-CAROU, M. L. IZQUIERDO-PULIDO, M. C. MARTÍN-MORRO & A. MARINÉ-FONT (Spain)	

Influence of Salts, Amino Acids and Urea on the Non-enzymatic Browning of the Protein–Sugar System . . . . .	251
CHAY B. PHAM (Philippines) & JEAN C. CHEFTEL (France)	

Occurrence of Aflatoxins in Syrian Foods and Foodstuffs: A Preliminary Study. . . . .	261
M. HAYDAR, L. BENELLI & C. BRERA (Italy)	



*Food Chemistry—Vols 35–38*

Levels of Na, K, Ca and Mg in Infant Formulae and in Corn-Flour Infant Feeds O. S. FATOKI & F. O. BAMIRO (Nigeria)	269
Effect of Neutral and Oxidized Lipids on Protein Functionality in Megrin ( <i>Lepidorhombus whiffiagonis</i> W.) and Sardine ( <i>Sardina pilchardus</i> R.) during Frozen Storage. M. CARECHE & M. TEJADA (Spain)	275
Determination of Free Gossypol in Iranian Cottonseed and Cottonseed Cake FERESHTEH MALEK & PARVIN ZANDI (Iran)	289
Efficiency of Antioxidants from Natural Sources in Bakery Products S. S. BASSIOUNY, F. R. HASSANIEN, F. ABD EL-RAZIK ALI & SOHAIR M. EL-KAYATI (Egypt)	297
The Phytic Acid Content of Wheat Flour and Major Types of Bread Consumed in Kuwait. N. B. KASHLAN, V. P. SRIVASTAVA, N. A. MOHANNA, Y. K. AL-MOTAWA & M. S. MAMEESH (Kuwait)	307
<b>Technical Note</b> A Simple Headspace-Gas Chromatographic Method for the Quantitative Determination of Organic Volatiles of Fresh Orange Juice O. L. LUM, M. K. WONG & C. K. LEE (Singapore)	313

**CONTENTS OF VOLUME 38**

*Number 1*

Indices of Quality and Maturity for Different Commercial Sizes of Pea Seed for Canning GASPAR ROS & FRANCISCO RINCÓN (Spain)	1
Characterisation and Crystallisation of an 11S Seed Storage Globulin from Coconut ( <i>Cocos nucifera</i> ). H. J. CARR, G. W. PLUMB, M. L. PARKER & N. LAMBERT (UK)	11
Effect of Germination and Fermentation on Available Carbohydrate Content of Pearl Millet NEELAM KHETARPAUL & B. M. CHAUHAN (India)	21
Polyphenol Oxidase from Artichoke ( <i>Cynara scolymus</i> L.) ONOFRIO LEONI, SANDRO PALMIERI, VINCENZO LATTANZIO (Italy) & CHRISTIAAN F. VAN SUMERE (Belgium)	27
Thiols in Flour and Baking Quality J. A. D. EWART (UK)	41

*Food Chemistry—Vols 35–38*

Colour Characteristics of Cooked Cured-Meat Pigment and its Application to Meat . . . . .	61
F. SHAHIDI & R. B. PEGG (Canada)	

**Research Note**

Cellulase Inhibition by Polyphenols in Olive Fruits . . . . .	69
ANTONIA HEREDIA, JUAN FERNÁNDEZ-BOLAÑOS & RAFAEL GUILLÉN (Spain)	

Book Reviews . . . . .	75
------------------------	----

*Number 2*

Compositional and Pasting Characteristics of Plain-Dried and Parboiled Cassava ( <i>Manihot esculenta</i> Crantz) . . . . .	79
K. C. M. RAJA & S. V. RAMAKRISHNA (India)	

Combined Gas Chromatography–Mass Spectrometric Analysis of the Aroma Components of Cooked Taro ( <i>Colocasia esculenta</i> L.) . . . . .	89
GLESNI MACLEOD (UK)	

Buckwheat Lipoxigenase: Inactivation by Gamma-Irradiation . . . . .	97
H. MICHAEL HENDERSON, N. A. MICHAEL ESKIN & JOSEPH BORSA (Canada)	

Multicomponent Flow Injection Analysis: Determination of Potassium and Calcium in Wine . . . . .	105
L. ILCHEVA, R. YANAKIEV, V. VASILEVA & N. IBEKWE (Bulgaria)	

Mineral Elements in Fresh and Canned Asparagus . . . . .	113
G. ZURERA-COSANO & R. MORENO-ROJAS (Spain)	

Liquorice, <i>Glycyrrhiza glabra</i> L.—Composition, Uses and Analysis . . . . .	119
G. R. FENWICK (UK), J. LUTOMSKI (Poland) & C. NIEMAN (The Netherlands)	

Digestible and Undigestible Carbohydrates in Autoclaved Legumes, Potatoes and Corn . . . . .	145
MONICA SILJESTRÖM & INGER BJÖRCK (Sweden)	

**Short Communication**

Changes in Alpha-Galactosidase Activity and Oligosaccharides During Germination and Incubation of Cowpeas ( <i>Vigna unguiculata</i> ) . . . . .	153
S. R. ALANI, D. M. SMITH & P. MARKAKIS (USA)	

*Number 3*

Comments on Recent Hypotheses for Glutenin . . . . .	159
J. A. D. EWART (UK)	

*Food Chemistry—Vols 35–38*

Mercury Content of Squid <i>Loligo opalescens</i> . . . . . JERZY FALANDYSZ (Poland)	171
The Interaction between Oxalic Acid and Divalent Ions— $Mg^{2+}$ , $Zn^{2+}$ and $Ca^{2+}$ — in Aqueous Medium . . . . . OLUFEMI O. FABOYA (Nigeria)	179
Determination of Water Activity in Brie and Camembert Cheese Varieties by Four Different Methods . . . . . A. MARCOS, M. A. ESTEBAN & M. ALCALÁ (Spain)	189
The Relationship Between Lipid Composition and Oxidative Stability of Potato Granules . . . . . M. LILJA HALLBERG & H. LINGNERT (Sweden)	201
Changes in Fatty Acid Levels of Young Shoots of Tea ( <i>Camellia sinensis</i> L.) due to Nitrogenous Fertilizers. . . . . P. O. OWUOR, R. M. MUNAVU & J. W. MURITU (Kenya)	211
Analysis of Maleic Hydrazide in Potatoes by Competitive Inhibition Enzyme- Linked Immunosorbent Assay . . . . . R. O. HARRISON & J. O. NELSON (USA)	221
Book Reviews . . . . .	235

*Number 4*

Nutrient Composition and Antinutritional Factors of <i>Dolichos lablab</i> L. Seeds . . . . . R. K. DEKA & C. R. SARLAR (India)	239
Instantization and Evaluation of Some Traditional Egyptian Foods . . . . . M. M. YOUSSEF (Egypt)	247
Organic Acids in Potato Tubers: Part 1—The Effect of Storage Temperatures and Time on Citric and Malic Acid Contents of Potato Tubers. . . . . G. LINSIŃSKA & K. ANIOŁOWSKI (Poland)	255
Starch and Protein Digestibility of Rice Bean ( <i>Vigna umbellata</i> ): Effects of Domestic Processing and Cooking Methods . . . . . DEEPINDER KAUR & AMIN C. KAPOOR (India)	263
Amino Acid Composition of Cumin Seed ( <i>Cuminum cyminum</i> L.) . . . . . FARID H. BADR & EVG. V. GEORGIEV (Bulgaria)	273
The Mutagenicity of some Spanish Edible Mushrooms in the Ames Test . . . . . P. MORALES, E. BERMÚDEZ, P. E. HERNÁNDEZ & B. SANZ (Spain)	279
Effect of Diet on Caries-Inducing <i>Streptococcus mutans</i> Growth . . . . . S. TANDON, A. R. PRABHAKAR & S. UDUPA (India)	289

<b>The Effect of Pre-process Handling Conditions on the Ascorbic Acid Content of Green Leafy Vegetables</b> . . . . .	297
O. O. P. FABOYA (Nigeria)	
<b>Technical Note</b>	
<b>Oligosaccharide Formation During the Hydrolysis of Lactose with Hydrochloric Acid and Cation Exchange Resin.</b> . . . . .	305
K. T. HUH, T. TOBA & S. ADACHI (Japan)	