All meat substitute products and meat, median (IQR)

Nutrients per 100 g	Substitutes (*n* 82)		Keyhole (*n* 28)		Regular (*n* 70)		*P*-value*
Energy (kcal)	201·5	(169·5–220·5)[a]	145·0	(125·0–155·8)[b]	224·5	(204·8–244·3)[c]	<0·001
Fat (g)	10·2	(8·1–15·0)[a]	7·2	(5·0–9·0)[b]	16·5	(14·0–18·1)[c]	<0·001
Saturated fat (g)	1·1	(0·8–1·7)[b]	2·3	(2·0–3·1)[b]	6·4	(5·6–7·7)[a]	<0·001
Carbohydrates (g)	8·4	(4·9–12·6)[a]	0·1	(0·0–5·5)[b]	4·0	(0·0–7·1)[b]	<0·001
Sugars (g)	1·0	(0·6–1·7)[a]	0·0	(0·0–0·4)[b]	0·2	(0·0–1·0)[c]	<0·001
Fibre (g)	3·6	(0·0–5·1)[a]	0·0	(0·0–0·0)[b]	0·0	(0·0–0·0)[b]	<0·001
Protein (g)	13·0	(8·3–16·3)[a]	18·0	(11·5–19·8)[b]	15·0	(11·3–17·7)[b]	<0·001
Salt (g)	1·5	(1·1–1·8)	1·0	(0·1–1·7)	1·5	(1·0–1·7)	0·081

All dairy substitute products and dairy with three groups of comparison, median (IQR)

Nutrients per 100 g	Substitutes (*n* 77)		Keyhole (*n* 15)		Regular (*n* 34)		*P*-value*
Energy (kcal)	62·0	(40·0–270·0)[b]	38·0	(33·0–260·0)[b]	277·0	(65·8–339·8)[a]	<0·001
Fat (g)	3·0	(1·3–21·0)[a]	0·5	(0·1–16·0)[b]	22·5	(4·0–27·0)[c]	<0·001
Saturated fat (g)	0·6	(0·2–18·2)[b]	0·3	(0·1–10·0)[b]	15·0	(2·6–17·0)[a]	0·001
Carbohydrates (g)	9·4	(4·3–20·0)[a]	4·5	(0·0–4·6)[b]	2·7	(0·3–4·5)[b]	<0·001
Sugars (g)	1·8	(0·0–3·9)	4·5	(0·0–4·6)	2·0	(0·1–4·5)	0·48(
Fibre (g)	0·0	(0·0–0·6)[a]	0·0	(0·0–0·0)[b]	0·0	(0·0–0·0)[b]	<0·001
Protein (g)	0·5	(0·1–1·3)[a]	3·5	(3·5–31·0)[b]	11·5	(3·5–26·0)[b]	<0·001
Salt (g)	0·1	(0·1–1·9)	0·1	(0·1–1·1)	1·1	(0·1–1·3)	0·13(

All dairy substitutes products and dairy with two groups of comparison, median (IQR)

Nutrients per 100 g	Substitutes (*n* 85)		Regular (*n* 56)		*P*-value*
Energy (kcal)	103·0	(68·0–184·0)	124·0	(73·3–252·0)	0·117
Fat (g)	7·0	(2·0–10·2)	8·3	(2·9–13·3)	0·183
Saturated fat (g)	1·7	(0·3–7·0)	5·4	(1·8–7·8)	0·005
Carbohydrates (g)	10·0	(6·8–23·5)	12·0	(5·7–24·0)	0·535
Sugars (g)	7·5	(3·9–18·5)	11·0	(5·7–22·4)	0·001
Fibre (g)	0·8	(0·0–1·0)	0·0	(0·0–0·0)	<0·001
Protein (g)	1·4	(1·0–3·3)	3·7	(3·5–4·4)	<0·001
Salt (g)	0·1	(0·1–0·2)	0·1	(0·1–0·2)	0·103

Nutritional Implications Of Macronutrient Substitutes

Liying Dong

Nutritional Implications Of Macronutrient Substitutes:

Nutritional Implications of Macronutrient Substitutes G. Harvey Anderson,Barbara J. Rolls,Daniel G. Steffen,1997 The papers in this volume were presented at a conference entitled Nutritional Implications of Macronutrient Substitutes held by the New York Academy of Sciences Institute and the International Life Sciences Institute North America Technical Committee on Macronutrient Substitution on October 27 29 1996 in Arlington Virginia USA The focus of the volume is on the understanding of the impact of macronutrient substitutes on energy and nutrient intake food selection and dietary patterns Currently Americans are eating numerous lower fat and sugar free foods which are made possible by the technology of macronutrient substitutes These include the intense sweetners and fat replacers of which the carbohydrate and protein type are available As a major reason for the initial development of macronutrient substitutes was the increase in obesity in the population of the United States this volume discusses the energy balance **Nutrition in Clinical Practice** David L. Katz,2012-03-28 Written by one of America s foremost authorities in preventive medicine Nutrition in Clinical Practice Second Edition is the practical comprehensive evidence based reference that all clinicians need to offer patients effective appropriate dietary counseling This fully revised edition incorporates the latest studies and includes new chapters on diet and hematopoiesis diet and dermatologic conditions and health effects of coffee chocolate and ethanol Each chapter concludes with concise guidelines for counseling and treatment based on consensus and the weight of evidence Appendices include clinically relevant formulas nutrient data tables patient specific meal planners and print and Web based resources for clinicians and patients **Sweeteners and Sugar Alternatives in Food Technology** Kay O'Donnell,Malcolm Kearsley,2012-07-13 This book provides a comprehensive and accessible source of information on all types of sweeteners and functional ingredients enabling manufacturers to produce low sugar versions of all types of foods that not only taste and perform as well as sugar based products but also offer consumer benefits such as calorie reduction dental health benefits digestive health benefits and improvements in long term disease risk through strategies such as dietary glycaemic control Now in a revised and updated new edition which contains seven new chapters part I of this volume addresses relevant digestive and dental health issues as well as nutritional considerations Part II covers non nutritive high potency sweeteners and in addition to established sweeteners includes information to meet the growing interest in naturally occurring sweeteners Part III deals with the bulk sweeteners which have now been used in foods for over 20 years and are well established both in food products and in the minds of consumers In addition to the traditional polyol bulk sweeteners newer products such as isomaltulose are discussed These are seen to offer many of the advantages of polyols for example regarding dental heath and low glycaemic response without the laxative side effects if consumed in large quantity Part IV provides information on the sweeteners which do not fit into the above groups but which nevertheless may offer interesting sweetening opportunities to the product developer Finally Part V examines bulking agents and multifunctional ingredients

which can be beneficially used in combination with all types of sweeteners and sugars **Appetite and Food Intake** Ruth Harris,Ruth B.S. Harris,Richard D. Mattes,2008-02-21 A complex interplay of social economic psychological nutritional and physiological forces influence ingestive behavior and demand an integrated research approach to advance understanding of healthful food choices and those that contribute to health disordersincluding obesity related chronic diseases Taking a multifaceted approach Appe Family Economics and Nutrition Review ,1997 *Public health reports* ,1998 *Health Services Reports* ,1998 **Handbook of Obesity** George A. Bray,Claude Bouchard,2003-12-09 Offering perspectives on the history prevalence and genetics of obesity this book examines the origins and etiology of obesity It considers the relationship between behavioural neuroscience and obesity **Sweeteners and Sugar Alternatives in Food Technology** Helen Mitchell,2008-04-15 Sugar replacement in food and beverage manufacture no longer hasjust an economic benefit The use of ingredients to improve thenutritional status of a food product is now one of the majordriving forces in new product development It is thereforeimportant as options for sugar replacement continue to increase that expert knowledge and information in this area is readilyavailable Sweeteners and Sugar Alternatives in Food Technologyprovides the information required for sweetening and functionalsolutions enabling manufacturers to produce processed foods thatnot only taste and perform as well as sugar based products butalso offer consumer benefits such as calorie reduction dentalhealth benefits digestive health benefits and improvements in longterm disease risk through strategies such as dietary glycaemiccontrol Part I of this comprehensive book addresses these healthand nutritional considerations Part II covers non nutritive high intensity sweeteners providing insights into blendingopportunities for qualitative and quantitative sweetnessimprovement as well as exhaustive application opportunities PartIII deals with reduced calorie bulk sweeteners which offer bulkwith fewer calories than sugar and includes both the commerciallysuccessful polyols as well as tagatose an emerging functional bulksweetener Part IV looks at the less well established sweetenersthat do not conform in all respects to what may be considered to bestandard sweetening properties Finally Part V examines bulkingagents and multifunctional ingredients Summary tables at the endof each section provide valuable concentrated data on each of thesweeteners covered The book is directed at food scientists andtechnologists as well as ingredients suppliers **Food, People and Society** Lynn J. Frewer,Einar Risvik,Hendrik Schifferstein,2013-03-09 Food consumption is vital to human survival Nevertheless the exact determi nants of food perception liking and food choice are still not fully understood Food People and Society tries to fill some of the gaps in our knowledge by stud ying these processes from multiple perspectives each with their own emphasis Some approaches focus mainly on the characteristics of food products eaten some focus on the person who eats a particular food whereas other approaches emphasize the psychological economic or social context in which food con sumption takes place By bringing together these different approaches in one book we open the opportunity to integrate different perspectives and to facili tate comprehension of the complex processes that drive food choice behaviour Food People and Society is written for a wide

audience including students and academics interested in food perception and consumption policy makers health educators and nutritionists food manufacturers and food marketers **Enhancing the Regulatory Decision-Making Approval Process for Direct Food Ingredient Technologies** Institute of Medicine,Food Forum,1999-04-29 The Institute of Medicine s IOM s Food Forum was established in 1993 to allow science and technology leaders in the food industry top administrators in the federal government representatives from consumer interest groups and academicians to discuss and debate food and food safety issues openly and in a neutral setting The Forum provides a mechanism for these diverse groups to identify possible approaches for addressing food and food safety problems and issues surrounding the often complex interactions among industry academia regulatory agencies and consumers On May 6 7 1997 the Forum convened a workshop titled Enhancing the Regulatory Decision Making Process for Direct Food Ingredient Technologies Workshop speakers and participants discussed legal aspects of the direct food additive approval process changes in science and technology and opportunities for reform Two background papers which can be found in Appendix A and B were shared with the participants prior to the workshop The first paper provided a description and history of the legal framework of the food ingredient approval process and the second paper focused on changes in science and technology practices with emphasis placed on lessons learned from case studies This document presents a summary of the workshop **Cumulated Index Medicus** ,1998 , **Environmental Health Perspectives** ,1993 **Food Additives** A. Larry Branen,P. Michael Davidson,Seppo Salminen,John Thorngate,2001-11-01 Offering over 2000 useful references and more than 200 helpful tables equations drawings and photographs this book presents research on food phosphates commercial starches antibrowning agents essential fatty acids and fat substitutes as well as studies on consumer perceptions of food additives With contributions from nearly 50 leading international authorities the Second Edition of Food Additives details food additives for special dietary needs contemporary studies on the role of food additives in learning sleep and behavioral problems in children safety and regulatory requirements in the U S and the European Union and methods to determine hypersensitivity *Proceedings of the Nutrition Society* ,1999 The Minipig in Biomedical Research Peter A. McAnulty,Anthony D. Dayan,Niels-Christian Ganderup,Kenneth L. Hastings,2011-12-19 The Minipig in Biomedical Research is a comprehensive resource for research scientists on the potential and use of the minipig in basic and applied biomedical research and the development of drugs and chemicals Written by acknowledged experts in the field and drawing on the authors global contacts and experience with regulatory authorities and **The American Journal of Clinical Nutrition** ,1998 Handbook of Dietary Fiber Susan Sungsoo Cho,2001-08-17 Presents the latest research on the analysis metabolism function and physicochemical properties of fiber fiber concentrates and bioactive isolates exploring the effect of fiber on chronic disease cardiovascular health cancer and diabetes Examines food applications and the efficacy and safety of psyllium sugar beet fiber pectin alginate gum arabic and rice bran The Minipig in Biomedical Research Andrew Makin,Anthony D. Dayan,Kenneth L. Hastings,Niels-Christian

Ganderup,2025-12-11 The second edition of The Minipig in Biomedical Research is a comprehensive resource for research scientists on the use of the minipig in basic and applied biomedical research Written by experts in the field coverage extends from the minipig s origins anatomy genetics immunology pathology and physiology to its welfare health and husbandry practical dosing and examination procedures surgical techniques and all areas of toxicity testing and the uses of the minipig as a disease model The book represents the state of the art recognising the growing influence of Artificial Intelligence and where appropriate relevant databases are referenced The future of minipigs with respect to genome editing and possible use in transplantation research makes this a very interesting model Since the first edition was published there has been a considerable increase in scientific industrial and regulatory interest in the minipig in some jurisdictions for instance the UK it is mandated that the minipig should be considered as a first line non rodent model The expert authors in this new edition have given practical details and extensive examples of its successful application in many fields including surgery drug development and safety testing Greater emphasis is given to the origins and uses of several different strains of minipig the greater understanding of genomics genetic manipulation immunology their value in the development of novel exploratory and therapeutic implantable devices and genetic and surgical procedures The second edition includes full color throughout with high quality illustrations making it the go to guide and resource for present and potential new users of minipigs

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Table of Contents Nutritional Implications Of Macronutrient Substitutes

1. Understanding the eBook Nutritional Implications Of Macronutrient Substitutes
    - The Rise of Digital Reading Nutritional Implications Of Macronutrient Substitutes
    - Advantages of eBooks Over Traditional Books
2. Identifying Nutritional Implications Of Macronutrient Substitutes
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Nutritional Implications Of Macronutrient Substitutes
    - User-Friendly Interface
4. Exploring eBook Recommendations from Nutritional Implications Of Macronutrient Substitutes
    - Personalized Recommendations
    - Nutritional Implications Of Macronutrient Substitutes User Reviews and Ratings

- Nutritional Implications Of Macronutrient Substitutes and Bestseller Lists

5. Accessing Nutritional Implications Of Macronutrient Substitutes Free and Paid eBooks
   - Nutritional Implications Of Macronutrient Substitutes Public Domain eBooks
   - Nutritional Implications Of Macronutrient Substitutes eBook Subscription Services
   - Nutritional Implications Of Macronutrient Substitutes Budget-Friendly Options
6. Navigating Nutritional Implications Of Macronutrient Substitutes eBook Formats
   - ePub, PDF, MOBI, and More
   - Nutritional Implications Of Macronutrient Substitutes Compatibility with Devices
   - Nutritional Implications Of Macronutrient Substitutes Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Nutritional Implications Of Macronutrient Substitutes
   - Highlighting and Note-Taking Nutritional Implications Of Macronutrient Substitutes
   - Interactive Elements Nutritional Implications Of Macronutrient Substitutes
8. Staying Engaged with Nutritional Implications Of Macronutrient Substitutes
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Nutritional Implications Of Macronutrient Substitutes
9. Balancing eBooks and Physical Books Nutritional Implications Of Macronutrient Substitutes
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Nutritional Implications Of Macronutrient Substitutes
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Nutritional Implications Of Macronutrient Substitutes
    - Setting Reading Goals Nutritional Implications Of Macronutrient Substitutes
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nutritional Implications Of Macronutrient Substitutes
    - Fact-Checking eBook Content of Nutritional Implications Of Macronutrient Substitutes
    - Distinguishing Credible Sources

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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