

# Nutritive Value of Triticale Protein

Hulse, Joseph H

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# Nutritive Value Of Triticale Protein

**Endel Karmas, Robert S. Harris**



## **Nutritive Value Of Triticale Protein:**

**Nutritive Value of Triticale Protein (and the Proteins of Wheat and Rye)** Joseph H. Hulse, Evangeline M. Laing, International Development Research Centre (Canada), 1974 Abstract Cereal grains are the main sources of protein and calories for many people in the developing world Triticale a man made cereal grain is a cross between wheat and rye Triticale promises higher yields of grain at least equal in protein content and superior in biological quality to wheat Triticale has a higher content of lysine Lysine content of triticale foods can be improved by supplementation with other materials with rich content such as food legumes Present evidence suggests that sound healthy triticale is equal to or superior to wheat in farm animal diets Since triticale will tolerate environments unsuitable to wheat it promises to be a significant addition to world cereal crops for human and animal consumption Well defined universally accepted standards and methods of chemical and biological evaluation are urgently needed The literature relative to triticale s biological value especially concerning proteins is reviewed The Chemistry of Cereal Proteins Radomir Lasztity, 2017-07-12 In the past decade since the first edition was published the study of cereal protein chemistry has grown and changed New separation techniques have been introduced while the application of achievements of molecular biology and genetic engineering of proteins has progressed dramatically This new edition includes these advances and updates the chemistry of cereal proteins for all specialists working in theory and practice of cereal grain production and processing *Amino Acid Composition and Biological Value of Cereal Proteins* Radomir Lásztity, Máté Hidvegi, 2012-12-06 Cereals belong to the most important elements in the history of mankind From the beginning of agriculture cereals have been by far the most important staple food in the world Although the cereal consumption decreased to a low level in the developed countries in Europe and North America in the developing countries over two thirds of the calorie and protein intake is based on cereals A substantial quantity of cereals goes indirectly into food via feed to animals Generally cereal proteins are classified as proteins of lower biological value because of shortage in lysine and some other essential amino acids Recent developments in the determination and evaluation of the biological value of proteins and protein mixtures suggest that the oversimplified earlier evaluation of cereal proteins must be reviewed This book contains the edited proceedings of the International Symposium on Amino Acid Composition and Biological Value of Cereal Proteins held in Budapest Hungary May 31 June 1 1983 under the sponsorship of the International Association for Cereal Chemistry Hungarian Scientific Society for Food Industry and Grain Trust Hungary with supplemental invited contributions Scientists biologist plant breeders farmers chemists biochemists engineers food technologists and nutritionists from 17 countries presented and reviewed along with participants from 20 countries the recent methodology and trends in the determination of the biological value of cereal proteins v the amino acid composition of cereal proteins and factors influencing the composition and the role of cereal proteins in nutrition and animal feeding **Nutritional Evaluation of Food Processing** Endel Karmas, Robert S. Harris, 2012-12-06 Dramatic changes in the attitudes toward human nutrition

have taken place during the past decade Food related and medical professionals as well as consumers are now more than ever before aware of and concerned about diet nutrition and the beneficial and deleterious effects of food processing upon nutrients The old saying We are what we eat is still relevant Nutritious food will contribute greatly to consumers good health and ultimately reduce medical bills Food processing is essential to maintaining our food reserves from one harvest to another thus letting us serve our daily meals regularly If food processing is defined as including all treatments of foodstuffs from harvest to consumption then more than 95% of our food may be considered as processed In most cases food processing and storage cause some reduction in the nutritional value of foods Advances in food science and food technology have resulted in an increase in nutrient retention after processing In addition today's consumer better understands how to avoid excessive nutrient losses during food preparation The information presented in this completely revised reference and textbook will help the reader to understand better the relationship between food processing and nutrient retention The authors scholarly contributions are greatly appreciated

*Cereals and Nutraceuticals* Joginder Singh, Sawinder Kaur, Prasad Rasane, Jyoti Singh, 2024-08-29 This book is focused on the production cultivation processing composition nutritional value value addition health implications limitations and safety of nutriceals with an emphasis on their functional significance With changing food habits and increasing health concerns consumers around the world are opting for a more nutritious diet than that was consumed until recently Nutriceals are now becoming a food of choice for many and newer products are being developed using them Thus a better understanding of these valuable crops is becoming essential Researchers and scientists around the world have now turned their attention to nutriceals as a cheaper and most important solution to nutritional deficiencies Processing of these cereals is matter of advanced research in recent times to make it suitable and palatable for human consumption and taste and hence high emphasis is given on processing and value addition of these cereals A comprehensive account of these important aspects is highly required The book covers specific aspects of the nutriceals of consumption pattern and acceptance and the cultivation practices and health benefits associated with their consumption Considerations on processing value addition and safety associated with various nutriceals and current and future challenges and the opportunities for its utilization are highlighted in the book This book forms an important resource on nutriceals for food technologists and food scientists

**Proceedings of the FAO Expert Consultation on the Substitution of Imported Concentrate Feeds in Animal Production Systems in Developing Countries** R. Sansoucy, Thomas Reginald Preston, R. A. Leng, 1987-01-01

**Catalogue of Research Literature for Development: Food production and nutrition** United States. Agency for International Development. Bureau for Technical Assistance, 1976

**Handbook of Cereal Science and Technology, Revised and Expanded** Karel Kulp, 2000-03-28 This thoroughly revised second edition addresses the full spectrum of cereal grain science employing agronomic chemical and technological perspectives and providing new and expanded treatment of food enrichment techniques nutritional standards and product quality evaluation Written by over 40

internationally respected authorities the **Bibliography of Agriculture**, 1971-12 **Triticale Improvement and Production** Mohamed Mergoum, Helena Gómez Macpherson, 2004-01-01 Triticale the first successful human made cereal grain was produced in 1875 by crossing wheat with rye This publication contains updated information on various aspects of triticale production uses and marketing strategies worldwide and it includes 13 country reports on the crop s production and research status **Bibliography of Agriculture with Subject Index**, 1978-10 ***Triticale: Today and Tomorrow*** Henrique Guedes-Pinto, Norman Darvey, Valdemar P. Carnide, 1996-11-30 Triticale s days as a scientific curiosity are definitely over Its wide acceptance as a feed grain or forage crop or for baking and malting plus its high yields under marginal or stress conditions have made it an economically important crop in countries such as Poland Germany Australia Portugal Brazil Morocco and China This publication contains selected reviewed and up to date papers presented at the Third International Triticale Symposium held in Lisbon Portugal by the International Triticale Association and EUCARPIA Among the broad spectrum of subjects addressed in these presentations are cytogenetics biotechnology genetic resources breeding agronomic practices and diseases Also included are triticale s food feed and forage uses as well as its marketing processes In a world of increasing population and decreasing agricultural resources triticale offers a genuine solution for increasing land utilization and grain production ***Food Proteins*** Shuryo Nakai, H. Wayne Modler, 1996-12-17 Neue Verfahren der computergestützten Aufklärung und gentechnologischen Modifikation von Eiweißstrukturen haben die Proteinchemie revolutioniert Dieses Buch verbindet klassische Methoden mit aktuellen neuronalen Netzwerken genetische Algorithmen der Anwender speziell aus dem Nahrungsmittelsektor wird befähigt komplizierte Probleme systematisch zu lösen nicht wie bisher oft durch Trial and Error Neben theoretischen Grundlagen werden die Eigenschaften von Nahrungseiweißen und deren analytische Charakterisierung diskutiert auch Trennungs- und Reinigungsverfahren für Proteine sowie gezieltes biotechnologisches Design neuer Verbindungen kommen zur Sprache Ein Nachschlagewerk für Forschung und Ausbildung **Nutrition and Feeding of Organic Pigs, 2nd Edition** Robert Blair, 2017-12-21 Organic animal production has increased rapidly in recent years to keep up with the increasing consumer demand for organic meats There are many guidelines and restrictions on what should go into the feedstuffs of organically farmed animals from which difficulties arise when trying to ensure a well balanced nutritious diet without the use of any supplements The book has been completely updated and revised to address how to formulate organic diets in situations where there is a declining supply of organic feed as well as the feasibility of utilizing novel feedstuffs and their acceptability by consumers of organic meat products Including the experiences of producers in relation to appropriate breeds and production systems for forage based organic production this book is an important read for researchers and students of organic food animal production veterinary sciences and food as well as food industry personnel and organic farmers ***Hearings, Reports and Prints of the Senate Committee on Agriculture and Forestry*** United States Congress. Senate. Committee on Agriculture and Forestry, 1973 **Extension of Farm and Related Programs** United

States. Congress. Senate. Committee on Agriculture and Forestry,1973      **War on Hunger** ,1974      Chickasha,OK., April  
6, 1973, Ardmore, OK., April, 1973 United States. Congress. Senate. Committee on Agriculture and Forestry,1973  
*Proceedings of the Tenth International Congress of Nutrition* ,1976      **Technical Report** ,1977

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