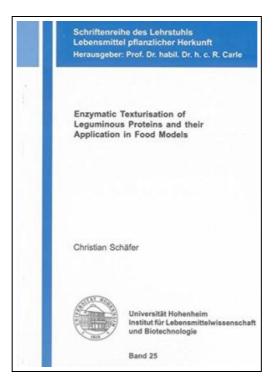
Enzymatic Texturisation of Leguminous Proteins and their Application in Food Models



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Reviews

Completely essential read publication. It is really basic but excitement in the fifty percent of the book. You will not really feel monotony at anytime of your respective time (that's what catalogues are for about in the event you ask me). (Lexie Paucek PhD)

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ENZYMATIC TEXTURISATION OF LEGUMINOUS PROTEINS AND THEIR APPLICATION IN FOOD MODELS



Shaker Verlag Aug 2011, 2011. Taschenbuch. Condition: Neu. Neuware - Besides colour, aroma, and flavour, texture represents a key quality parameter in food technology. Proteins are food ingredients essentially contributing to the texture of foodstuffs. A wide range of proteins from animal and vegetable sources including those of single-cell organisms are available for the production of foods. Cost effectiveness, suitable functionality, and the demand for nutritional and health value are the challenges of today's food product development. Additionally, beside glutenfree proteins non-genetically modified and vegetarian products have become a key issue. Therefore, vegetable proteins have gained increasing attention being associated with high consumer acceptance and nutritional value. Cereals and grain legumes are the most important vegetable sources of protein. However, allergenicity of cereal proteins and insufficient texture properties of proteins from plant origin have so far hindered successful launch of such products. Thus, enhancing texturising properties of proteins from plant origin could open new areas for the development of healthy, well accepted and costeffective foodstuffs. Commercially available microbial transglutaminase (MTG) represents a powerful tool for the improvement of techno-functional properties of proteins in food systems such as texture, gel firmness, viscosity, emulsifying properties, heat resistance, water-binding and oil-binding capacity. MTG catalyses the formation of -(-glutamyl)-lysine cross-links between -carboxylamide groups of glutamine residues and -amino groups of lysine residues in proteins. The resulting isopeptide bonds contribute to the formation of a stable protein network by intermolecular and intramolecular cross-links. As a consequence, a significant textural improvement of protein-containing foodstuffs is achieved. Up to now, plant proteins have not been enzymatically cross-linked on a large scale for commercial food applications. For protein texturisation, precise control of the enzymatic reaction is essential. Therefore, a reliable HPLC-MS method for the quantification of -(glutamyl)-lysine isopeptide in lyophilised proteolytic digests of cross-linked plant protein...

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