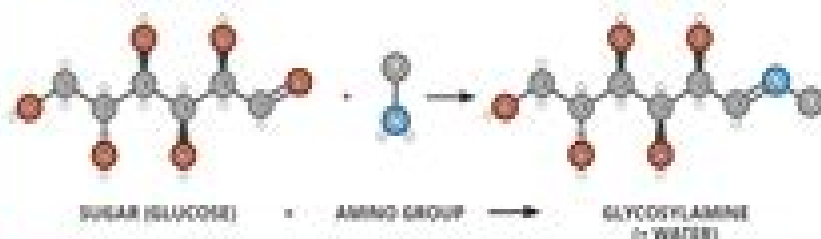


A GUIDE TO THE MAILLARD REACTION

The Maillard reaction occurs during cooking, and it is responsible for the non-enzymatic browning of foods when cooked. It actually consists of a number of reactions, and can occur at room temperature, but is optimal between 140-165°C. The Maillard reaction occurs in three stages, detailed here.

1

The carbonyl group on a sugar reacts with a protein or amino acid's amino group, producing an N-substituted glycosylamine.



2

The glycosylamine compound generated in the first step isomerises, by undergoing Amadori rearrangement, to give a ketosamine.



3

The ketosamine can react in a number of ways to produce a range of different products, which themselves can react further.



Classes of Maillard Reaction Products



The Maillard reaction produces hundreds of products; a small subset of these contribute to flavour and aroma, some groups of which are described below. Melanoidins are also formed; brown, polymeric substances which contribute to the colouration of many cooked foods.



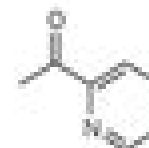
PIRAZINES
cooked
roasted
toasted



PYRROLES
cereal-like
nutty



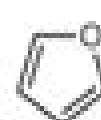
ALKYLPYRIDINES
bitter
burnt
astringent



ACETYPYRIDINES
crackling-like
cereal



FURANONES
sweet
caramel
burnt



FURANS
meaty
burnt
caramel-like



OXAZOLES
green
nutty
sweet



THIOPHENES
meaty
roasted

Maillard Reaction In Foods And Nutrition

Salvatore Parisi, Weihui Luo



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The Maillard Reaction in Foods and Nutrition George R. Waller, Milton S. Feather, 1983 *Maillard Reaction* Merlin C Thomas, Josephine Forbes, 2010-09-24 In September 2009 a meeting was held in Palm Cove Australia which brought together the world experts in the Maillard or browning reaction This reaction causes the browning of foods when they are heated and in chocolate caramel and beer this reaction is appetizing contributing to aroma taste and texture But when these products accumulate in the body this same process contributes to disease and ageing The book is the proceedings of that meeting held in response to a growing recognition of the role reactive carbonyl compounds play in food technology nutrition and tissue ageing in biology and medicine Reactive carbonyls now touch every aspect of food science biology and medicine Efforts to counteract the damage caused by these products are gaining acceptance as a basis for novel therapeutic approaches and the fields of food technology ageing and preventive medicine are experiencing an upsurge of interest in strategies to minimize the unwanted effects of the Maillard reaction The meeting also fostered a balanced approach to understanding both the advantageous and deleterious properties of carbonyl compounds and their end products in food science technology and medicine The major audience of this book is the large body of scientists and worldwide industries with an interest in the Maillard reaction in foods and biology and medicine with both basic and applied researchers and industry representatives from diverse fields who have interests in Chemistry of the Maillard Reaction Biology and the Maillard Reaction Enzymology Receptors and Signal Transduction Bioinformatics and Systems Biology Physiology Disease and Therapeutics Food Science and Nutrition and the Maillard Reaction

The Maillard Reaction in Foods and Nutrition George R. Waller, 1983 Abstract Various aspects of the Maillard reaction a non enzymatic reaction that gives food its flavor and color during frying roasting and baking are discussed for food scientists and nutritionists in 29 technical papers The papers are organized into 7 sections covering historical development chemical aspects 6 papers flavors tastes and odors of cooked foods 6 papers food technology aspects 3 papers nutritional aspects with emphasis on lysine losses 6 papers in vivo Maillard reactions 2 papers and toxicological aspects with emphasis on mutagen production 5 papers A literature review of the sensory properties of almost 450 Maillard reaction products is included wz

Maillard Reactions in Chemistry, Food and Health T P Labuza, V Monnier, J Baynes, J O'Brien, 1998-01-01 The Maillard reaction was originally studied due to its importance in foods Lately it has been found to play a key role in many health related issues It is now associated with diabetes ageing and cancer The 5th International Symposium on The Maillard Reaction was held at the University of Minnesota USA in August 1993 This volume of conference proceedings presents recent research and discusses aspects of the chemistry kinetics technology and toxicology of this reaction

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the food industry and its relation to ageing and age related diseases This collection of papers are devoted to a single chemical reaction the Maillard reaction They look at various different topics such as its use in the food industry and its relation to ageing and age related diseases Maillard Reaction in Foods Salvatore Parisi,Sara M. Ameen,Shana Montalto,Anna Santangelo,2019-06-01 This book provides an overview of mitigation strategies and positive health effects of Maillard Reaction products in the contexts of food processing and storage The effects of Maillard Reactions can vary considerably while on the one hand certain sensorial alterations and influences on color flavor and odor may be desirable Maillard Reactions can also result in potentially harmful and toxic products e g furfurals furosines or acrylamide This book discusses possible mitigation strategies for the reduction of toxic reaction products including the addition of enzymes or antioxidants reducing sugars and encapsulation approaches as well as new processing strategies such as high pressure radio frequency ultrahigh temperature or Ohmic heating methods The book also illustrates that certain Maillard products can even produce positive health effects e g antimicrobial or anticarcinogenic effects The methods described here can serve as a blueprint for promoting the formation of beneficial compounds and reducing avoiding toxic substances offering essential strategies and methods Maillard Reactions in Food C. Eriksson,1981 **The Maillard Reaction in Food Processing, Human Nutrition and Physiology** P. Finot,2011-12-12 **Chemistry of Maillard Reactions in Processed Foods** Salvatore Parisi,Weihui Luo,2018-06-29 This SpringerBrief explains the importance of Maillard reactions in food processing It underlines that the term Maillard reaction actually does not describe one single chemical reaction but an entire class of chemical reactions which lead to browning with a strong impact on visual appearance odor and flavor It emphasizes that the Maillard reactions are still not fully characterized despite extensive historical studies While under the right conditions Maillard reactions have many favorable effects e g formation of antioxidants the Brief discusses that there are also conditions where Maillard reactions can result in toxic or mutagenic reactions Hence it emphasizes that the reaction should be viewed as a complex network of various sub reactions with a plethora of concomitant reaction mechanisms and kinetics This Brief thus makes a step toward a holistic evaluation of the complexity of the Maillard reaction scheme with the aim of making better and more targeted use in food processing **The Maillard Reaction in Food Processing, Human Nutrition and Physiology** P. Finot,2014-01-14 **Advances in Food and Nutrition Research** ,1991-10-23 Advances in Food and Nutrition Research The Maillard Reaction Reconsidered Jack N. Losso,2016-04-19 Cooking involves chemical reactions that can make food smell and taste better However the same process that is responsible for creating the aroma flavor palatability color and taste of grilled and seared foods has also been linked to the development of chronic degenerative diseases The Maillard reaction produces advanced glycation end produc *Advances in Food and Nutrition Research* Fidel Toldra,2019-07-24 Advances in Food and Nutrition Research provides updated knowledge about nutrients in foods and how to avoid their deficiency especially for those essential nutrients that should be present in the diet to reduce disease risk and

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The Maillard Reaction in Food Chemistry Dongliang Ruan, Hui Wang, Faliang Cheng, 2018-11-27 This book is devoted to the characterization of Maillard reaction products using mass spectrometry MS based technologies The Maillard reaction is a well known non enzymatic reaction between reducing sugars and proteins and one of the most important reactions in food sciences The authors explore different MS based technologies to systematically investigate the Maillard reaction from amino acids peptides and proteins By using amino acid peptide sugar models the authors also show how reactants temperature and time affect the Maillard reaction In this book readers will learn more about glucosylation and how it can improve functional properties of food proteins

Biochemistry of food proteins B. J. F. Hudson, 2013-03-09 Developments in the understanding of food protein structure behaviour and applications continue apace Many of these have in the past decade been reported and evaluated in the series Developments in Food Proteins comprising seven volumes with a total of 55 chapters The time has now come to reassess many of the topics reviewed in that series and to add certain others However instead of assembling somewhat at random food protein topics from quite disparate fields in individual volumes we have decided to bring together homogeneous groups of topics each representing a specific sector of the subject Under the general theme of Progress in Food Proteins the first of these groups covers Biochemistry Readers will note that though six of the topics reviewed in this volume are new five of them have already featured in Developments in Food Proteins These last are in active research fields in which new developments have been of special significance In this sense therefore they are welcome updates

Natural Toxic Compounds of Foods Jiri Davidek, 2018-01-18 This book summarizes the knowledge of naturally occurring toxic and antinutritive food compounds It includes those plants and animals of value or potential value for human nutrition either by direct consumption or indirect as feed for domestic animals Also included are toxic and antinutritive compounds formed from food components during processing and storage as well as the toxic and antinutritive compounds present as natural constituents in raw materials and foodstuffs **FEATURES** Discusses food intolerance inducing compounds toxins and toxic compounds Focuses on the most frequently occurring intolerances Describes the reaction conditions for the formation of these compounds as well as for their degradation Considers nitroso compounds and ethyl carbamate formation

Nutritional Impact of Food Processing J. C. Somogyi, H. R. Müller, 1989-05-02 **Nutritional Adequacy, Nutrient Availability and Needs** Mauron, Anantharaman, Finot, Horisberger, Ingenbleek, Würzner, 2013-11-21

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