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Phenolic Antioxidants in Foods: Chemistry, Biochemistry and Analysis

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- Covers all of the important chemical, biochemical and analytical chemistry aspects needed for students to gain a thorough understanding of phenolic antioxidants in foods

Plant foods are an essential part of our daily diet and constitute one of the highest contributors to the world economy. These foods are rich in phenolic compounds, which play a significant role in maintaining our health. This textbook presents a comprehensive overview of the chemistry, biochemistry and analysis of phenolic compounds present in a variety of foods. The text can be used as a singular source of knowledge for plant food science and technology, covering all of the important chemical, biochemical and analytical aspects needed for a thorough understanding of phenolic antioxidants in foods. Phenolic Antioxidants In Foods: Chemistry, Biochemistry, and Analysis is comprised of three sections. The first section covers the basic concepts of antioxidants, their chemistry and their chemical composition in foods, providing a detailed introduction to the concept. The second section covers the biochemical aspects of phenolic antioxidants, including their biosynthetic pathways, biological effects and the molecular mechanism of antioxidant effects in the biological system. This section promotes an understanding of the fundamental biochemical reactions that take place in foods and after digestion and absorption.

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