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Microalgae is more important than you  
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Foods and ...

Functional ingredients from algae for  
foods and nutraceuticals reviews key  
topics in these areas, encompassing both  
macroalgae (seaweeds) and microalgae.  
After a chapter introducing the concept  
of...

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Functional Ingredients from Algae for  
Foods and ...

Preface. 1: Algae as a Source of  
Biologically Active Ingredients for the  
Formulation of Functional Foods and  
Nutraceuticals. 2: Structure and  
Occurrence of the Major Algal

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Components. 3: Chemical Structures of Algal Polysaccharides. 4: Algal Lipids, Fatty Acids and Sterols. 5: Algal Proteins, Peptides and Amino Acids. 6: Phlorotannins. 7: Pigments and Minor Compounds in Algae. 8: Biological Properties of Algae and Algal Components. 9: Antioxidant Properties of Algal Components and Fractions ...

Functional Ingredients from Algae for Foods and ...

vi Contents 3 Algallipids, fattyacidsandsterols 87 P. Kumari, M.Kumar, C. R. K. ReddyandB. Jha, CSIR-Central SaltandMarine Chemicals Research Institute, India 3.1 Introduction 87 3.2 Structureandoccurrenceofalgal lipids 88 3.3 Structureandoccurrence ofalgal fatty acids, oxylipins and sterols 93 3.4 Recentadvancesin algallipid methodologyand lipidomics 103 3.5

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Functional ingredients from algae for  
foods and nutraceuticals

Algae have a long history of use as foods and for the production of food ingredients. There is also increasing interest in their exploitation as sources of bioactive compounds for use in functional foods and nutraceuticals. This book reviews key topics in these areas, encompassing both macroalgae (seaweeds) and microalgae. After a chapter introducing the concept of algae as a source of...

Functional ingredients from algae for  
foods and ...

In this work, a revision of the knowledge about the use of microalgae as food and as a source of functional ingredients has been performed. The most interesting results in the field are presented and commented

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upon, focusing on the different species of microalgae and the activity of the nutritionally relevant compounds. A summary of the health ...

## Technology And Nutrition

Functional ingredients from microalgae -  
Food & Function ...

Also, although practically all the species of algae are rich in phenylalanine, tyrosine and treonine, *S. vulgare* represented as main amino acids leucine (8,2 %), alanine (6,8 %), glutamic (17,4 %) and aspartic acid (10,6%). 3.2. *Himanthalia elongata*, *Undaria pinnatifida*, *Porphyra* sp. and *Chondrus crispus*.

## IN THE SEARCH OF NEW FUNCTIONAL FOOD INGREDIENTS FROM ALGAE

Algae Functional ingredients Possible health effect; *Sargassum vulgare*: Alginic acid, xylofucans: Antiviral activity:



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Himanthalia elongate: PUFAs: Reduce risk of certain heart diseases:  $\alpha$ -Tocopherol: Antioxidant activity: Sterols: Reduce total and LDL cholesterol: Soluble fiber: Reduce total and LDL cholesterol: Undaria pinnatifida: PUFAs: Reduce risk of certain heart diseases

In the search of new functional food ingredients from algae  
Few species of red algae such as Phorphyra spp and C. crispus showed useful ingredients such as PUFAs, soluble fiber and sterols that play important role in human health by lowering cholesterol...

In the search of new functional food ingredients from algae  
Functional ingredients from algae for foods and nutraceuticals reviews key topics in these areas, encompassing both macroalgae (seaweeds) and

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microalgae. After a chapter introducing the concept of algae as a source of biologically active ingredients for the formulation of functional foods and nutraceuticals, part one explores the structure and occurrence of the major algal components.

9780857095121: Functional Ingredients  
from Algae for Foods ...

The fresh water green algae *Chlorococcum humicola* (*C. humicola*), rich in bioactive components such as carotenoids, flavonoids, polyphenols and fatty acids, has a wide variety of health benefits ...

(PDF) Algae as Source of Functional  
Ingredients for Health ...

As they evaluate the potential value functional foods may add to their product lineups, marketers should consider what algae-based ingredients offer in terms of

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4 reasons why algae could add value as a  
functional ...

Functional ingredients from algae for  
foods and nutraceuticals is a  
comprehensive resource for chemists,  
chemical engineers and medical  
researchers with an interest in algae and  
those in the algaculture, food and  
nutraceutical industries interested in the  
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