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**Functional Ingredients From Algae
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Miniature Science #2: Growing Algae For Biofuels **Functional Ingredients From Algae For**

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Functional Ingredients from Algae for 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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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 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 ...

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vi Contents 3 Algal lipids, fatty acids and sterols 87 P. Kumari, M. Kumar, C. R. K. Reddy and B. Jha, CSIR-Central Salt and Marine Chemicals Research Institute, India 3.1 Introduction 87 3.2 Structure and occurrence of algal lipids 88 3.3 Structure and occurrence of algal fatty acids, oxylipins and sterols 93 3.4 Recent advances in algal lipid methodology and lipidomics 103 3.5 Seasonal variations 109

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.

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

Functional ingredients from microalgae - Food & Function ...

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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;
Himanthalia elongate: PUFAs: Reduce risk of certain heart diseases: ?-Tocopherol: Antioxidant activity: Sterols: Reduce total and LDL cholesterol: Soluble fiber: Reduce total and

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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

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macroalgae (seaweeds) and 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

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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 attributes and differentiation.

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

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