# Natural Compounds From Algae And Spirulina Platensis Its

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**Natural Compounds From Algae And**
Micro and macroalgae were one of the first sources of natural compounds showing in vitro anti-HIV activity. Numerous in vitro or in vivo studies has shown the potential of algae against wild range of viruses. The use of natural products in the manufacturing of drugs is an ancient and well-established practice.

**Marine Algae as a Natural Source for Antiviral Compounds ...**
As new technologies are emerging for the study of bioactive compounds from microalgae, this group is drawing attention as a promising source of natural products that have wide applications in the ...

**(PDF) Bioactive Compounds From Microalgae: Current ...**
Compound production using Algae as the platform is a carbon negative process, ... Identify new natural compounds, increase efficiency of existing natural compounds or even produce bio-synthetic compounds in a natural way. Learn more. Biosynthetic Compounds. Our engineered algae strains act as a production factory to synthesize your products.

**Provectus Algae - Nature Accelerated**
Phlorotannins are natural compounds mainly accumulated in marine brown algae which are formed by the polymerization of 1,3,5-trihydroxybenzene (phloroglucinol) monomer units. Phlorotannins exhibit anticarcinogenic activity.

**Antioxidant, anti-inflammatory and anticancer potential of ...**
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**Onium Compounds from the Red Alga Pterocladia capillacea ...**
This database currently contains entries for 517 compounds encompassing 25 descriptive fields mostly from the Red algae of the genus Laurencia (Ceramiales, Rhodomelaceae). The customized search engine of this database will enable wildcard querying, which includes Accession Number, Compound type, Seaweed Binomial name, IUPAC name, SMILES notation or InChI.

**Seaweed metabolite database (SWMD): A database of natural ...**
tive compounds extracted from the biomass of algae with their unique properties and potential applications. Antibacterial, an-tiviral, antifungal, antioxidative, anti-inflammatory, and anti-tumor properties of extracted compounds were described in a systematic way: type of extracted compound, species of algae,

**Algae as production systems of bioactive compounds**
For instance, associated microorganisms are responsible to produce compounds of utmost importance which mediate essential ecological functions in the development and growth of algae species including quorum sensing signaling molecules, compounds with biological activities, substances that promote the growth and other effective molecules compounds (Singh and Reddy, 2014).

**From Marine Origin to Therapeutics: The Antitumor ...**
Introduction. Microalgae have drawn great attention as a promising source for the sustainable production of various bioactive compounds. These include fatty acids, phycobiliproteins, chlorophylls, carotenoids, and vitamins that can be widely used in pharmaceuticals, cosmetics, food additives and ingredients .The natural bioactive compounds from microalgae are attractive as research targets ...

**Bioactive Compounds From Microalgae: Current Development ...**
Marine algae produce a wide variety of remarkable natural compounds, usually referred to as secondary metabolites because they are not involved in the basic machinery of life . Although these molecules often contribute to only a very small fraction of the organism total biomass [ 2 ], the contribution of these compounds to survival may sometimes be comparable to metabolites resulting from the ...

**Halogenated Compounds from Marine Algae**
The structures of natural polyphenols vary from simple ... In the case of marine algae, these compounds are generally found free in the intracellular space and concentrated around organelles ...

**(PDF) Bioactive phenolic compounds from algae**
Among the antioxidant compounds isolated from marine sources, phenolic and polyphenolic compounds are products of the secondary metabolism of micro- and macroalgae. Phlorotannins are the most studied group of phenolic compounds from algae and constitute an extremely heterogeneous group of molecules, providing a wide range of potential biological activities.

**Bioactive Phenolic Compounds from Algae - Bioactive ...**
Natural Products from Marine Algae: Methods and Protocols guides readers through protocols and techniques on algal biotechnology, metabolites, Solid-Liquid Extraction (SLE), Microwave Assisted Extraction (MAE), Liquid Chromatography, Gas Chromatography, Nuclear Magnetic Resonance Spectroscopy, Infra-red spectroscopy and Raman Spectroscopy.

**Natural Products From Marine Algae - Methods and Protocols ...**
Marine algae produce a wide variety of remarkable natural compounds, usually referred to as secondary metabolites because they are not involved in the basic machinery of life . Although these molecules often contribute to only a very small fraction of the organism total biomass [ 2 ], the contribution of these compounds to survival may sometimes be comparable to metabolites resulting from the ...

**Halogenated compounds from marine algae. - Abstract ...**
Natural compounds derived from marine organisms exhibit a wide variety of biological activities. Over the last decades, a great interest has been focused on the anti-tumour role of sponges and algae that constitute the major source of these bioactive metabolites. A substantial number of chemically different structures from different species have demonstrated inhibition of tumour growth and ...

**Marine Drugs | Free Full-Text | New Drugs from the Sea ...**
A wide spectrum of volatile organic compounds (VOCs) are released from algae in aquatic ecosystems. Environmental factors such as light, temperature, nutrition conditions and abiotic stresses affect their emission. These VOCs can enhance the resistance to abiotic stresses, transfer information between algae, play allelopathic roles, and protect against predators.

**Frontiers | Why Algae Release Volatile Organic Compounds ...**
Natural Production. Micro-algae contains many undiscovered natural materials, compounds and chemicals. Our high throughput platform speeds up bioprospecting across thousands of micro-algae strains. Once a strain is identified, our platform optimises the growing conditions for commercial scale production, GMO free.

**Provectus Algae | Services**
Apart from being the major primary producers in temperate ecosystems and the largest biomass producers in marine environment, macroalgae produce a diverse array of natural compounds as mode of protection against natural enemies (Goecke et al. 2010).Over the last 5 years, a number of studies (some of which are discussed below) have reported new antifouling compounds from macroalgal extracts ...

**Minireview: algal natural compounds and extracts as ...**
Marine red algae are the source of anti-inflammatory cyclic dipeptides and diketopiperazine Terpenes and steroids are the classes of anti-inflammatory compounds found ubiquitously in marine algae. Heo et al. [ 102 ] evaluated the potential of fucoxanthin to produce anti-inflammatory effect via inhibition of NO production and reduced Prostaglandin-E2 production.