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Spirulina platensis (Arthrospira): Physiology, cell ...

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Vonshak A. Outdoor mass production of Spirulina: The basic concept // Spirulina platensis (Arthrospira): Physiology, Cell - biology and Biotechnology. - London: Taylor & Francis, 1997. - P. 79 - 99.

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Tomaselli L, in Vonshak A (1997) Spirulina platensis (Arthrospira) Physiology, Cell Biology and Biotechnology, Spirulina platensis (Arthrospira) Taylor & Francis Cohen Z & Vonshak A (1991) Fatty acid composition of spirulina and spirulina-like cyanobacteria in relation to their chemotaxonomy Phytochemistry Vol 30, No 1, pp 205-206

Arthrospira platensis | Therapeutic Goods Administration (TGA)

Bibliography Includes bibliographical references and index. Contents. Morphology, ultrastructure and taxonomy of Arthrospira Spirulina Maxima and Arthrospira Spirulina Platensis-- the photosynthetic apparatus of Spirulina - electron transport and energy transfer-- Spirulina - growth, physiology and biochemistry-- genetics of Spirulina-- outdoors mass production of Spirulina - the basic concept ...

Spirulina platensis (Arthrospira) : physiology, cell ...

Arthrospira (Spirulina) Arthrospira platensis is a planktonic filamentous cyanobacterium composed of individual cells (about 8 µm diam.), which grows in subtropical, alkaline lakes with a temperature optimum of about 35 °C. In productive cultures, Arthrospira is cultivated in shallow, mixed ponds or semi-closed, tubular photobioreactors.

Arthrospira Platensis - an overview | ScienceDirect Topics

Arthrospira is a genus of free-floating filamentous cyanobacteria characterized by cylindrical, multicellular trichomes in an open left-hand helix. A dietary supplement is made from A. platensis and A. maxima, known as spirulina. The A. maxima and A. platensis species were once classified in the genus Spirulina. Although the introduction of two separate genera is now generally accepted, there has been much dispute in the past and the resulting taxonomical confusion is tremendous.

Arthrospira - Wikipedia

Spirulina platensis (=Arthrospira fusiformis) was isolated from Lake Chitu, a soda crater lake in the Ethiopian Rift Valley, where it formsa dense and almost unialgal population. Growth experiments were run in turbidostats under constant light, to assess growth response and tolerance to salinity, as well as to the component anions.

Response of Spirulina platensis (= Arthrospira fusiformis ...

The microorganism Spirulina platensis,was maintained in Paoletti et al.(1975) cultivation medium (26). Cells of the cyanobacterium grown in shaker at 42 µmol photons m⁻²s⁻¹provided by fluorescent lamps, 30 ± 2 °C, 100 rpm, were collected in logarithmic growth phase (27), filtered and used in preparation of the inoculum.

Growth and Content of Spirulina Platensis Biomass ...

the production of Spirulina. Spirulina production as well as its photosynthetic activity and growth-physiology is greatly restricted by the culture media. There have been few studies that reported on the morphological changes involved with inducing and accelerating cell division when Spirulina has been cultivated in various media.

THE EFFECT OF SHIFTS IN MEDIUM TYPES ON THE GROWTH AND ...

This study aimed to evaluate the growth and production of biomolecules by Spirulina sp. LEB 18 cultivated in seawater. The seawater was used without n...

Spirulina sp. LEB 18 cultivation in seawater and reduced ...

Spirulina platensis (Arthrospira) 46 photoautotrophically, depends on light as its main energy source. The photosynthetic apparatus and its components are described in Chapter 2. The response of outdoor cultures to light and the important role that light and photosynthesis play in productivity

Spirulina: Growth, Physiology and Biochemistry

Spirulina Platensis Arthrospira. DOI link for Spirulina Platensis Arthrospira. Spirulina Platensis Arthrospira book. Physiology, Cell-Biology And Biotechnology ... Physiology, Cell-Biology And Biotechnology. Edited By Avigad Vonshak. Edition 1st Edition . First Published 1997 . eBook Published 21 May 1997 . Pub. location London . Imprint CRC ...

Spirulina Platensis Arthrospira - Taylor & Francis Group

Arthrospira(Spirulina) spp. can live in extremely alkaline environments, up to approximately pH 12 (Ciferri 1983), while most microorganisms cannot resist these conditions (due to osmotic shock and cell lysis); consequently, a pH treatment was an obvious choice.

A strategy to obtain axenic cultures of Arthrospira spp ...

Spirulina, or what was most likely Arthrospira, is a photosynthetic, filamentous, spiral- shaped, multicellular and blue-green microalga that has a long history of use as food.

(PDF) Earth Food Spirulina (Arthrospira): Production and ...

An aqueous extract of the blue-green filamentous algae Arthrospira platensis (previously called Spirulina platensis) inhibited HIV-1 replication in human T-cell lines, peripheral blood mononuclear cells (PBMC), and Langerhans cells (LC).

PubMed

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