



algae health

Who is Algae Health?

- Company formed in October 2009.
- Strategically focusing on high value bio-actives from microalgae
- Developed patented cultivation technology
- Established investor & EI grant funding for this R&D phase.
- Working with LIT for the R&D phase.

What is microalgae?

- One of the oldest organisms on the planet
- Hundreds of thousands of various strains
- Source of the key nutrients both for humans and animals
- Rapid growing (some species can double their size in 4 hours)
- Green and sustainable source for products (converts CO_2 to O_2 and does not require arable land)

Product Overview

- Astaxanthin
 - It is a **carotenoid** and has **100-500 times** the antioxidant capacity of **Vitamin E**
- Omega 3 - EPA
 - Used as supplements, food additive and pharmaceutical applications
- Beta Carotene
 - A carotenoid used in health and as a pigment for food and feed applications.
- Lutein
 - It is also a **carotenoid** and used in mostly in eye health applications.

Traditional Cultivation Technology

Raceway Ponds



Tubular



Other Variations



Our
Proprietary
Technology

Algae Health's Cultivation Vessel



Advantages

- Full control of :
 - Temperature, with minimal heat loss (insulated system)
 - Full control and monitor of PH, Salinity etc.
 - Adjustable light frequencies and time duration
 - No problems with culture crash, contamination or oxygenation
 - Minimal footprint required for system.

External Support Network

- Shannon ABC (Applied Biotechnology Centre)
 - State of the art equipment and skill base for microalgae cultivation and extraction processes.
 - Innovation Partnership approved through EI for the project. To support the R&D process
 - Innovation Partnership hired post doctorate expert in microalgae cultivation who is dedicated to this project.
- European 7th Framework programme approved. Consortium of 9 universities and 2 SME's..