



Alpha Biotech

Phyto-plankton Innovation

Since 1993, Alpha Biotech has been specialized in production, extraction and commercialization of phytoplankton and derived products: fresh-water and marine micro-algae, cyanobacteria. Our company has developed expertise in raceway and photobioreactor production, extraction of pigments and other metabolites. This expertise includes two patents and some publications.

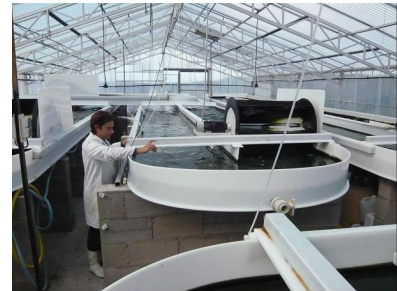
1-Research and development

- ✓ Production of new strains of phytoplankton
- ✓ Design of new products from known strains
- ✓ Design of photo-bioreactors

2-Production of micro-algae biomass

Our main production is *Spirulina Platensis*, but we also cultivate:

- *Porphyridium Cruentum* (Phycoerythrin), rich in SOD
- *Nannochloropsis oculata*, rich in EPA and with some DHA
- *Phaeodactylum*, rich in EPA and other lipids
- *Scenedesmus* sp,
- *Rhodorus*, violet pigment
- *Haematococcus Pluvialis*, rich in carotenoids
- *Chlorella* sp
- *Botryococcus Braunii*
- *Tetraselmis* sp
- *Isochrysis*
- *Thalassiosira*
- *Neochloris*



Alpha Biotech is a specialist of physiological induction, the ability to induce a micro-alga to produce an active molecule (i.e. antioxidant ...) in controlled conditions, but in a natural manner.



3-Processing technology

- Expertise in preparing water extract
- Cold extraction technology: active molecules are unspoiled.
- *Spirulina* liquid extract enriched in Phycocyanin (blue pigment),
 - *Porphyridium Cruentum* (pink from Phycoerythrin)
 - *Rhodorus*, violet pigment
 - *Haematococcus*

- Patent No. 27-89399 entitled "Manufacturing process for extracts of photosynthetic microorganisms, such as *Spirulina* in particular".
- Patent No 92-11877, entitled "Production process for micro-algae"