

Algaefeed© Dunaliella: *Dunaliella Salina* is an orange microalgae that lives in the salt and accumulates high concentrations of beta-carotene to survive in adverse conditions.

Algaefeed© Dunaliella provides

Advantages of Algaefeed vs Live algae

- **Stable nutritional profile.** To produce live algae is required daily maintenance, skilled labour and special facilities. Changes in temperature and light and the presence of contaminating organisms can cause crop failure or change the nutritional profile of the algal culture. Instead of live algae **Algaefeed Dunaliella** do not need nutrients or light so they maintain the same nutritional profile in your refrigerator or in your tank.
- **Easy to capture, faster feeding.**
-  **Inhibit Growth of numerous opportunistic marine bacterium pathogens.**
-  **Favorable effects on immune system of rainbow trout. (Emadi et Al, 2010).**
-  The carotenoids beta-carotene, lutein, canthaxanthin and astaxanthin are found in the eggs, ovaries, testicles, and milt (sperm) of fish including salmon, trout and sole. Pigmented eggs have a higher rate of fertilization than non-pigmented eggs. It is thought that the **carotenoides may have a positive effect on sperm motility, may have a role in the respiration of the eggs, and may protect the eggs against UV light damage** (Hamdorf, 1960; Hartmann, et al. 1947; Jitariu et al. 1975).
-  **Excellent suspension, no clumping, no fouling.**

Instructions for Use

Easy to Use:

-  Powder of microalgae easy to use by cell resuspension in water. Open the package, pour the content in water and resuspend with soft magnetic agitation.
-  No special preparation required
-  Easy to measure and disperse.

Mixing

-  For proper management, weight the required quantity, add one liter of seawater synthetic or sterilizes and homogenized using a beater. The dispersed product should be consumed within three days.

Dosage

-  The dosage depends on the number and size of the organisms will be fed. Cell number is not very informative of food value. There is such a large difference in cell volume (and biomass) for a small difference in cell size (just 10 % increase in the diameter means 33 % increase in volume (and biomass)). So a given mass of feeders requires a certain biomass of phytoplankton support metabolism and growth, not a certain number of algal cell.
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Conservation

Algaefeed Dunaliella do not have preservatives.

-  Refrigerated or frozen: Product should be kept away from the sun light for no longer than two years. Under these conditions, once opened consumed within a month.

Technical Description

Description:
Powder of microalgae
Appearance:
Orange Flour of microalgae
Particle size:
10-20 microns
Degree of dispersion in solution: **High**
Minimum Content of beta-carotene: 0.7 %
(over the 100% biomass)



Biochemical Composition for Algaefeed Dunaliella Powder

General Composition		Vitamins (µg/g)	
Proteins	24,29%	Vit. A	<0,5
Lipids	21,86%	Vit. E	1.084,36
Carbohydrates	19,43%	Vit. C	109,29
Ashes	<20%	Vit. B1	7,29
Fiber	8%	Vit. B2	11,41
Energy	4,66 Kcal/g	Vit. B6	335,14

Aminoacids (%w/w)			
Trp	0,12	His	0,68
Asp	2,96	Arg	2,36
Ser	1,55	Thr	1,60
Glu	3,76	Ala	2,65
Gly	1,94	Pro	2,84
Cys	0,32	Ile	1,53
Tyr	0,78	Leu	2,67
Val	2,23	Phe	1,94
Met	0,73		
Lys	1,87		

Fatty Acids (mg/g)		
16:0	Palmitic	11,66
18:0	Stearic	0,32
18:1n9	Oleic	3,23
18:2n6	Linoleic	1,41
18:3n6	γ-linolenic	5,42
18:3n3	α-linolenic	0,15



ALGALIMENTO S.L.
Producción de Algas

Microbiology

 COLIFORM BACTERIA ¹	NEGATIVE
 SALMONELLA ²	NEGATIVE
 VIBRIUM ³	NEGATIVE

1, 2. ISO 6579:2003; 3. Agar Vibrio ID

ALGALIMENTO SL

European Company specialised in the field of production of microalgae, guaranteeing the highest standards of quality and safety of our products.

Our premises are based in The Spanish Canary Islands Technological Institute, Europe, the most suitable for the development of this activity, given its mild climate all year round, its clean sea and its sun. Our production plant covers 2,000m² of cultivable surface, laboratory and agrifood plant for processing the biomass.

Three species of marine microalgae are currently produced in ALGALIMENTO SL: ***Isochrysis***, ***Tetraselmis*** and ***Dunaliella*** for culturing and/or enriching live prey organisms of larvae fish, such as Artemia, rotifers and Myshid shrimps, also food source in the rearing of all stages of marine bivalve mollusks (clams, oyster, scallops), of the post-larval stages of some marine gastropods (e.g. abalone) and shrimp larviculture production, Nauplius, Zoea and post larvae phases as well as for broodstocks. Also, microalgae are often used directly in the tanks for rearing marine fish larvae, this is called "green water technique".

Our cultivations are performed in open systems. The products obtained are of high quality undergoing strict laboratory controls throughout their lifecycle.

ALGALIMENTO is the biggest microalgae outdoor plant of Europe.

At our 5,000m² plant, we can produce up to 3 Tons of microalgae per year



ALGAEFED MICROALGAE ARE 100% EUROPEAN