



**THE WORLD'S BEST AND
EASIEST LIVE FEED**



How to use CryoPlankton

1. ORDER

Using CryoPlankton is extremely easy. You simply order the desired amount of nauplii from Planktonic. We ship the containers to your hatchery in due time for the first feeding of your larvae.

2. PREPARE

Preparing the live feed is done in a few simple steps, you just collect the frozen nauplii from the container and revitalize them in seawater. The nauplii will then resume their normal swimming activity, ready to be fed to the fish larvae. Alternatively, for larger quantities used in a more industrial production scale, an automatic rinser is available to further simplify the process combining thawing and rinsing process in one step.

3. FEED

The whole process takes about one hour each day. There is no need for cultivation, no need of live algae, algae paste or other food items for the nauplii before being fed to the fish larvae.

PACKAGING

CryoPlankton is frozen in 12 g pellets, stored in an easy-to-ship cryogenetic dewar. Each dewar contains 80 kg CryoPlankton, approx. 4 bill nauplii of CryoPlankton Large or 8 bill nauplii of CryoPlankton Small.

SHELF LIFE / STORAGE

CryoPlankton is stored in liquid nitrogen at -196 °C and have unlimited storage time. Liquid nitrogen will evaporate and the container/dewar has to be refilled on a regular basis.

LOT NUMBER

Each package or container is marked with a lot number, securing traceability of harvesting location, date of harvest and detailed information about the preservation procedure.

NUTRITIONAL CONTENT

Average content in g/100 g dry weight

Protein	67
Lipid	11
Ash	12,5

Typical fatty acid content (% of total fatty acids)

DHA	22
EPA	25
Total saturated fatty acids	18
Total monounsaturated fatty acids	19
Total polyunsaturated fatty acids	62
Total omega-3 fatty acids	50

CryoPlankton Small



Europe's progressive and leading provider of live feed

SPECIES

Stage 1 nauplius (balanus crenatus)

SIZE

Length 200µm/Width 100µm

What is CryoPlankton Small?

CryoPlankton will allow you to replace live feed cultures with natural marine plankton. CryoPlankton Small can be supplied for most species right from the beginning of start feeding. It's fed until a larger live feed prey like CryoPlankton Large is easily ingested by the larvae. It is an off-the-shelf, very easy to use product of better nutritional quality.

It will simplify the production process in hatcheries, replacing traditional live feed cultures, reducing risk and increasing biosecurity. CryoPlankton Small will provide all necessary nutrients for better development of the larvae, even during latter stages and eventually improve fry quality, increase growth rate and robustness.

Optimal feed for



BIOSAFETY

CryoPlankton has an unparalleled biosecurity compared to other live feeds. Pathogenic viruses, parasites and bacteria, like the opportunistic *Vibrio* spp., have never been detected in CryoPlankton.



HIGH QUALITY NUTRITION

The nutritional value of CryoPlankton is far superior to other live feed, due to high proportions of the marine fatty acids DHA/EPA in their phospholipids.

CryoPlankton Large



Europe's progressive and leading provider of live feed

SPECIES

Stage 1 nauplius (semibalanus balanoides)

SIZE

Length 320µm/Width 150µm

What is CryoPlankton Large?

CryoPlankton Large is supplied either from the beginning when fish and crustaceans can feed according to the species or few days later following another life feed like CryoPlankton Small. It is supplied until full weaning to dry feeds, and it has been proved to help on earlier weaning, reducing costs and complexity. It is an off-the-shelf, very easy to use product of better nutritional quality.

It will simplify the production process in hatcheries, reducing risk and increasing biosecurity, while improving fry quality, increase growth rate and reduce FCR also during on-growing phase.

optimal growth



EASY TO USE

The whole process takes about one hour each day. There is no need for cultivation, live algae, algae paste or other food items for the nauplii before being fed to the fish larvae.



CONSISTENCY

A standardized product gives predictability and consistent results in your hatchery.

CryoPlankton Preparation

Small scale setup



STEP 1 - THAWING

Temperature: 0-20 °C
Salinity: 24-36 psu
Min 25 L seawater per kg
Duration: ca. 2-5 minutes
Continuous stirring



STEP 2 - RINSING

Temperature: 0-20 °C
Salinity: 24-36 psu
Rinse from the outside
Duration: 2-3 min



STEP 3 - REVITALIZE

Temperature: <5 °C
Salinity: 24-36 psu
Min 50 L seawater per kg
Min. revitalization: 3 hours
Maximum storage 36 hours
Aeration >50% oxygen saturation

Large scale setup



STEP 1 - THAWING/RINSING

Temperature: 0-20 °C
Salinity: 24-36 psu
Max capacity 20kg
Duration: 15 minutes



STEP 2 - REVITALIZE

Temperature: <5 °C
Salinity: 24-36 psu
Min 50 L seawater per kg
Min. revitalization: 3 hours
Maximum storage 36 hours
Aeration >50% oxygen saturation

PLANKTONIC AS

Planktonic AS is a Norwegian company dedicated to the development and production of live feed for the aquaculture industry. Founded in 2008, based on extensive research into marine zooplankton combined with a thorough understanding of the nutritional needs of marine species, the company aims to be a recognized leader within its market. Planktonic is supervised by the Norwegian Food Safety Authority, registration number NO13051054.



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Planktonic AS
Bynesveien 48
7018 Trondheim

Call us: +47 93 43 89 28
Send us an email: [info@
planktonic.no](mailto:info@planktonic.no)