

Cryo-Small

Product Sheet



Species: *Balanus cretanus*

Size: Length 200µm/Width 100µm

CryoPlankton provides a ready-to-use alternative to live feed cultures, delivering high-quality natural marine plankton. Cryo-S is designed for larvae adapted to small prey and bridges the early feeding window until larvae transition to Cryo-L, while simplifying operations and supporting fry survival, quality, and production efficiency.



Nutritional Content

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Average content in g/100g dry weight	
Protein	45
Lipid	12
Ash	32
Fatty acid content (% of total fatty acids)	
DHA	11
EPA	28
Total saturated fatty acids	24
Total monosaturated fatty acids	30
Total polyunsaturated fatty acids	46
Total omega-3 fatty acids	43

Nauplii dry weight is roughly 25%.

Packaging

Cryo-S is frozen in 12 g pellets, stored in an easy-to-ship cryogenic dewar. Each dewar contains 80 kg of CryoPlankton, approx. 8 bill. nauplii. Cryo-S contains a mixture of nauplii (50%) (approx. 100 mill nauplii per Kg) and a cryoprotectant agent (CPA) production aid (50%); consisting of seawater (30%), ethylene glycol (20%), salt (0,9%).

Shelf-life and Storage

CryoPlankton is stored in liquid nitrogen at -196°C and can be stored indefinitely. Liquid nitrogen will evaporate through time and the container/dewar must be refilled on a regular basis.

Lot number

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

Preparing the feed

STEP 1 - THAWING



- Temperature: 10-20°C
- Salinity: 25-35 ppt
- Volume: 25 L of seawater per kg of product
- Duration: 5 minutes
- Continuous stirring

STEP 2 - RINSING



- Temperature: 10-20°C
- Salinity: 25-35 ppt
- Filter net: 70 µm for Cryo-S
- Volume: 40 L of seawater per kg of product
- Rinsing time: 10-20 minutes

STEP 3 - REVITALIZE



- Temperature: <5°C
- Salinity: 25-35 ppt
- Volume: 50 L of seawater per kg of product
- Time: 2-3 hours
- Max. storage: 36 hours
- Continuous aeration with open hose

STEP 4 - FEED



- Ready to feed to your larvae with dosing pumps or hand feeding

Safe handling

Safety

- Personal protective equipment: Wear protective gloves and safety glasses when handling the cryopreserved product.
- Skin and eye contact: Direct contact may cause irritation. In case of contact, rinse the affected area with water for at least 15 minutes.
- Ingestion: The cryoprotectant is toxic if swallowed. Do not ingest.
- Dilution: The product is diluted during use, significantly reducing the risk of irritation.
- Disposal: The cryoprotectant degrades rapidly and may be disposed of via the drain.

Liquid nitrogen (UN1977)

The dewar contains liquid nitrogen (LN₂) as a refrigerated storage medium and may cause severe cryogenic burns or injury in case of contact. Wear cold-insulating gloves and a face shield or suitable eye protection when handling the dewar. Nitrogen gas can displace oxygen and may lead to oxygen depletion and suffocation. Use and store the dewar in a well-ventilated area or outdoors.

PRODUCER
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