OCEAN NUTRITION™

Preserving Life and Beauty through Nutrition

GREAT SALT LAKE ARTEMIA CYSTS

- *Especially selected for first feeding of fish and shrimp larvae*
- *Selected according to hatching characteristics and enrichment kinetics*
- *Consistent quality and certified output*
- *Simultaneous hatching*
- *High enrichment values*

USE

TANK PREPARATION

- Use a clean tank with a conical shaped bottom.
- Install an open airtube near the bottom of the tank.
- Install a light source on top of the tank.
- Fill with clean seawater of salinity 25 - 35 gram / liter.

OPTIMAL HATCHING CONDITIONS

- Temperature: 25 - 29°C (77 - 84°F).
- Aeration: sufficient enough to keep the cysts in suspension.
- pH: 7,8 - 8,5.
- Incubate 2 gram of cysts per liter of seawater.

HATCHING AND HARVEST

- Under optimal conditions, the hatching will be completed within 24 hours.
- Stop aeration and remove light source.
- After 10 minutes, drain or siphon the nauplii from the bottom.
- Wait 15 minutes more and harvest the remaining nauplii.

BIOMETRICS

- Typical average length of Instar I is 500 micron.
- Typical average length of Instar II is 660 micron.

Instar I nauplii
GSL Artemia Cysts
+/- 19 hours - 500 micron

Instar II nauplii
GSL Artemia Cysts
+/- 24 hours - 660 micron

DECAPSULATION

For fast decapsulation: 0,35 liter of active chlorine (100%) per kg of cysts and a decapsulation time of around 3 to 4 minutes is recommended.

Hydration conditions may affect the speed of the decapsulation process.

Note that optimal hydration takes 40 - 60 minutes.

PACKAGING

- Alufoil bags of 0,5 kg
- Alufoil bags of 5 kg

STORAGE

The package should be maintained carefully closed.

For optimal storage, it is advised to keep the product in a cool and dry place below 6°C (43°F). Temperatures above 6°C can influence the hatching results.

COMPOSITION

Crude protein	54 %
Crude lipid	11 %
Crude ash	5 %
Moisture	8 %

INFO

GSL Artemia Cysts are harvested from the surface of the Great Salt Lake in Utah (USA).

After processing, a quality assesment is performed. Each harvest is subjected to extensive fingerprinting to categorize all important characteristics and parameters such as hatching and enrichment kinetics, separation, decapsulation, fatty acid profile, biometrics, ...

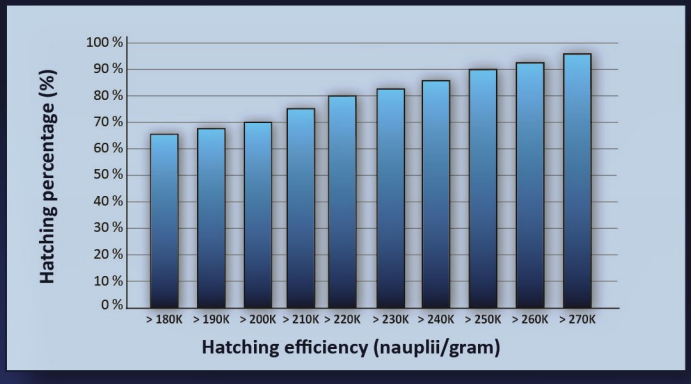
Based on the result of this fingerprint, Ocean Nutrition grades and offers the Artemia Cysts that are best suited for fish and shrimp hatcheries.

TYPICAL PERFORMANCE

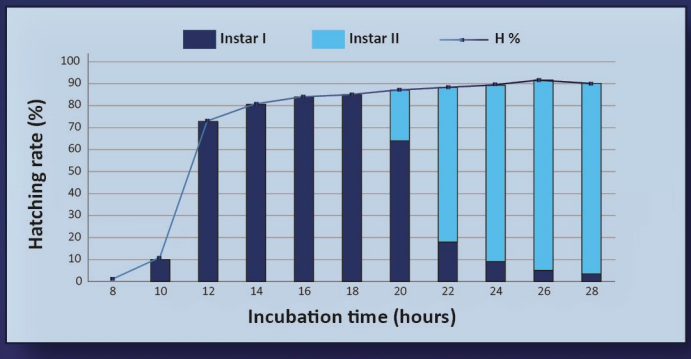
GSL Artemia Cysts are small, fast hatching cysts and are available in different grades.

1. Hatching efficiency

Typical cyst count of GSL Artemia Cysts is +/- 285.000 cysts per gram.



2. Instar I / II ratio



The typical time needed for 90% of the cysts to hatch out is approximately 19 hours, resulting in a typical Instar I / II ratio of 90 / 10.

After 24 hours the typical Instar I / II ratio is 10 / 90.

For hatcheries that wish to harvest predominantly Instar I nauplii, harvesting should be performed at 18 hours.

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