



INVE AQUACULTURE
SPECIALTY CYSTS



UNIQUE SMALL-SIZED ARTEMIA WITH HIGH HUFA CONTENT

THE SMALLEST STRAIN

NAUPLII SIZE : $\pm 430 \mu\text{M}$

NO ENRICHMENT NEEDED

DIRECT FEEDING OF ARTEMIA WITH HIGH HUFA

CONSISTENT HIGH HATCHING EFFICIENCY

CERTIFIED INVE QUALITY

SPECIALTY CYSTS

INVE Aquaculture's Specialty Artemia cysts are harvested at selected sites worldwide. Based on strong specific feature selection, the highest possible grades can be guaranteed.

Speciality Artemia are characterized for the specific dimensions of the nauplii and above all for the specific nutritional richness in fatty acid.



 A Benchmark
Company

CARE FOR GROWTH

AF/BF Artemia

PRODUCT DESCRIPTION

INVE Aquaculture offers a wide and specialized range of top quality Artemia cysts from sustainably harvested sources. Our vision is not to market artemia as a simple commodity, but as a range of advanced and innovative products with specific characteristics and groundbreaking technological innovations to meet the highest productivity and biosecurity standards.

AF and BF Artemia are available with **SEP-Art** technology, for an efficient and easy separation of the Artemia nauplii from the cysts and shells.

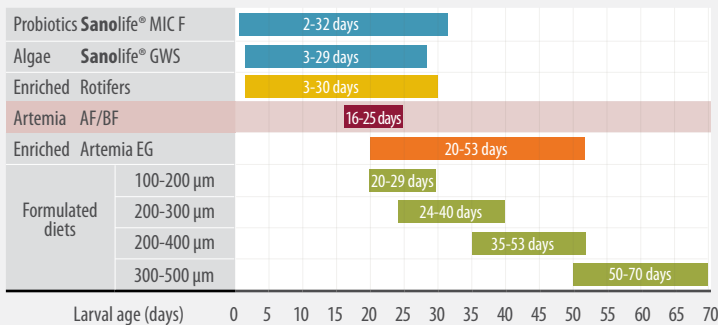
APPLICATION

Specialty cysts are mainly used in marine fish larval rearing either as first live feed or after several days of rotifer feeding (depending on species) until larvae are capable to ingest (larger) enriched Artemia. Specialty cysts compared to rotifers have 10 times more dry weight content, meaning that larvae save energy on predation activity and can be fed more efficiently.

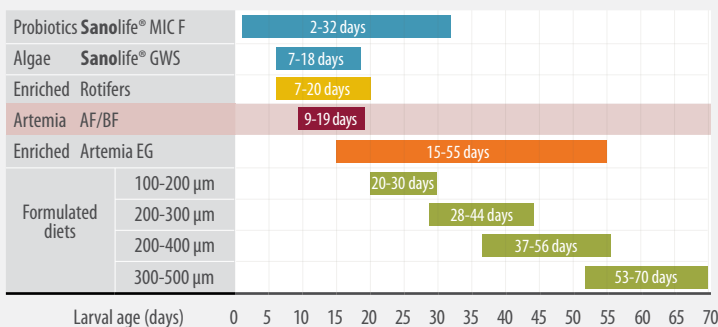


Typical feeding protocols indicating in which phase Artemia is fed

Bream



Bass



* protocols should be adapted to local conditions. For further assistance, contact your local representative.

PACKAGING

1 kg/alubag and 5 alubags/carton

STORAGE

Store in a dry place below 5°C. Temperature above 5°C can reduce the quality of the product. During storage the packaging should be kept carefully closed. Once opened, the product should be used immediately.

WHY IT SHOULD BE USED?

Specifications

- Feed directly to fish larvae at Instar I
- First live feed of European sea bass
- Transition live feed between rotifers and enriched Artemia in sea bream, grouper and Asian sea bass
- Certified INVE quality

	Standard hatching efficiency	Size	Naturally high HUFA
AF	> 240.000 nauplii/g	Smallest strain	>15 mg/g dry weight
BF	> 210.000 nauplii/g	Small sized nauplii	>10 mg/g dry weight

INSTRUCTIONS FOR USE

General parameters for optimal Artemia hatching

Tank preparation

1. After completion of a hatching, take out all removable parts (pipes, air tubes etc.), rinse and clean them separately with soap. Then disinfect by immersion in a chlorine solution (150 ppm)
2. Rinse the tank walls
3. Thoroughly brush the tank with soap
4. Rinse and repeat exercise with bleach solution
5. Rinse again extensively with water and fill the tank with filtered sea water. Make sure that all cysts and cystshells are removed (e.g. remaining in outlet and in valves of the tank)
6. Disinfect the hatching water with e.g. 10 ppm active chlorine and aerate gently for ±1 hour
7. Deactivate any remaining chlorine by adding 8 ppm sodium thiosulphate

Start of hatching

AF and BF Artemia cysts hatch optimally if the parameters listed below are respected.

1. Check the temperature of the water in the hatching tank prior to hatching
2. Aerate vigorously
3. Add the required amount of cysts into the hatching tank
4. Switch on the light and start hatching
5. Check the pH of the medium. The pH should be 8-8.5 during the entire hatching process. If necessary, add dissolved sodium bicarbonate or carbonate (preferably add bicarbonate half an hour before incubation, and immediately before adding the cysts also add 120 ppm of NaOH. In general a second dose of 120 ppm of NaOH will be necessary at T12).

Optimal hatching

Tank shape: Cilindro-conical or U/V-shaped

Aeration: Open ended or perforated PVC pipe

Salinity	Temperature	Light	pH	Cyst density	Oxygen
25-30 ppt	29°C	2000 Lux	8-8.5	2-3g/l	≥4ppm

End of hatching

Hatching is ended when the highest number of nauplii are obtained, normally hatching should be terminated within 18-24 h. Subsequently the nauplii can be harvested, rinsed and restocked to enrich.

However, since Artemia is a living organism and cysts are collected from a natural environment incubation time might change from year to year. For further information contact your local INVE representative.



A Benchmark
Company

CARE FOR GROWTH

To the best of our knowledge, the technical data in this technical card is accurate and reliable as of the date of publication. We do not assume any liability for the accuracy and completeness of the above information. Please inspect and test our products in order to satisfy yourself as to the suitability of the products to their particular purpose.

For more information, please contact your local INVE Aquaculture Service Center or take a minute to visit our free Artemia knowledge hub:
<http://artemia.inveaquaculture.com>

