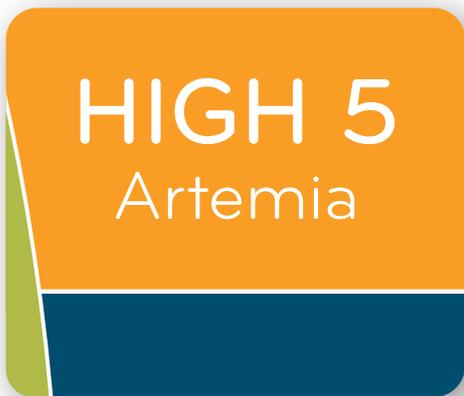




INVE AQUACULTURE
REGULAR CYSTS



ENHANCED ARTEMIA
CYSTS SELECTED TO
PRODUCE SYNCHRONOUS
DEVELOPING NAUPLII IN
AN EASY WAY

PATENTED PROPRIETARY PROCESSING TECHNOLOGY

NO NEED TO RINSE, DISINFECT OR DECAPSULATE

SYNCHRONOUS HATCHING

EXTENDED OPPORTUNITY TO FEED INSTAR I STAGE

HATCHING EFFICIENCY UP TO 170,000 NAUPLII/G

CERTIFIED HATCHING OUTPUT

REGULAR CYSTS

INVE developed the concept and brands of regular cysts more than 30 years ago. Cysts are classified according to their source and characteristics such as hatching, hatching efficiency, speed of development and enrichment.

INVE regular cysts originate from various lakes around the world and are selected and processed to provide quality cyst products that define our unique brands.

HIGH 5 Artemia are enhanced cysts that have undergone specific treatments (patented by INVE) during processing in order to hatch optimally.



A Benchmark
Company

CARE FOR GROWTH

HIGH 5 Artemia

PRODUCT DESCRIPTION

Enhanced cysts are Artemia cysts that are still or partially in diapause and consequently do not optimally hatch if not treated. Through years of R&D and investment, INVE has developed specific methods to break the diapause of these cysts and make the product easily available for all customers. Upon application of this process the cysts hatch at their full potential. This process is called "hatching enhancing techniques" and is patented by INVE.

HIGH 5 cysts create high value for their price. They are processed under strict quality control, ensuring consistent and standard hatching. **HIGH 5** is also available with **SEP-Art** technology.

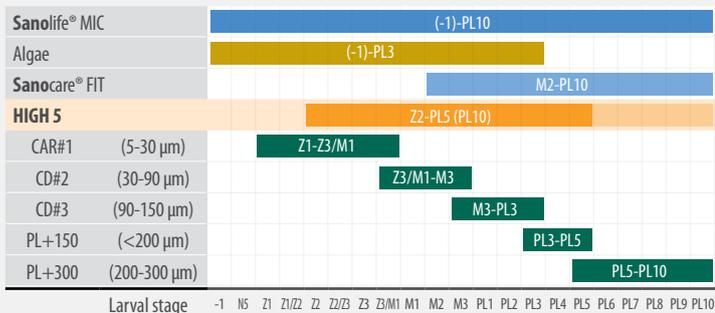
APPLICATION

Artemia nauplii are hatched and are fed directly to larvae at Instar I stage.

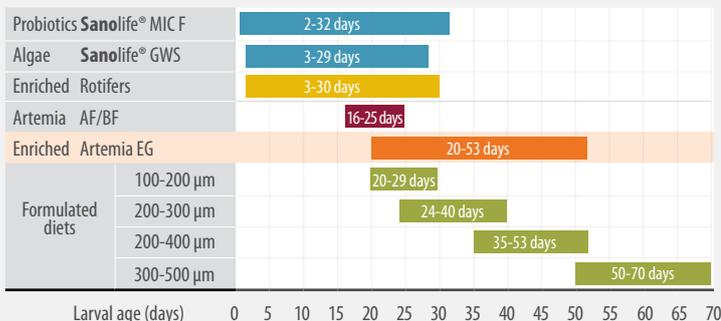


Typical feeding protocols indicating in which phase Artemia is fed

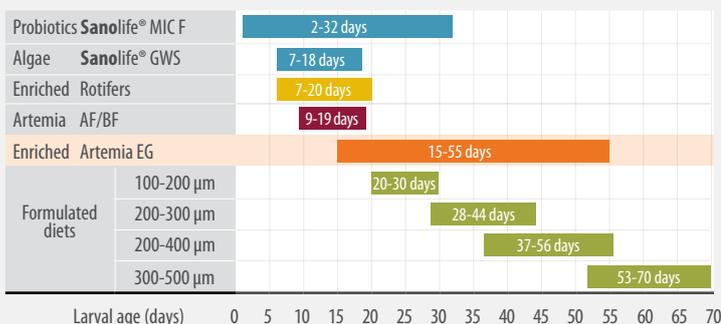
L. vannamei



Bream



Bass



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

PACKAGING

425 g/can 12 cans/carton and 5 kg/alubag 2 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

- Instar I are directly fed to crustacean larvae
- Good separation of **HIGH 5** Artemia
- Synchronous hatching
- Extended period to collect and feed Instar I stage with a high nutritional energy content
- Available in different grades
- Guaranteed INVE quality certification

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

HIGH 5 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: Cylindro-conical or U/V-shaped

Aeration: Open ended or perforated PVC pipe

Salinity	Temperature	Light	pH	Cyst density	Oxygen
25-30 ppt	29°C	3000-4000 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.



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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>

