



STEPS

OBJECTIVE: obtain instar I nauplii from *Artemia* cysts

1

CYST DENSITY

Optimal density is 2–3 g cysts/L

⚠ Higher densities (>5 g cysts/L) are possible:

With brined cysts

Apply pure oxygen

Monitor oxygen, pH and light well

2

AERATION

Aerate from the bottom of the tank

Containers with translucent conical bottoms work best

Maintain oxygen levels above 2 mg/L

Avoid foam formation

Cyst disinfection reduces foam formation

SALINITY

⚠ Optimal range of seawater is 15–35 g/L

TEMPERATURE

⚠ Keep cyst water constant between 25–30 °C

Optimal temperature is strain-dependent

pH

⚠ Maintain pH between 8.0–8.5

If pH drops, adjust with NaOH or bicarbonate

ILLUMINATION

⚠ Illuminate continuously

At least 2000 lux at the water surface

3

DURATION

Incubation time is strain and temperature dependent

MATERIALS NEEDED:

 *Artemia* cysts

 Seawater

OR

 Freshwater with added sea salts
(15–35 g/L)

 Disinfection

 Air supply

 Tank

 Timer

 Thermometer

 Refractometer

 Oxygen meter

 pH meter

 Lux meter

CHEMICAL

NaOH solution



ATTENTION!

Monitor dissolved oxygen, temperature and pH closely.

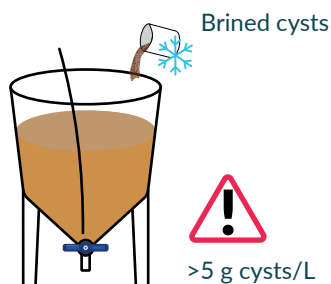
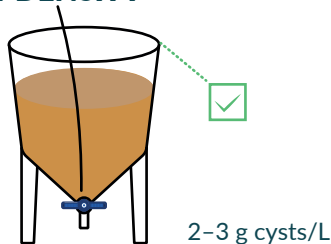
Monitor hatching percentage to avoid incomplete hatching.

Remove excess foam.

STEPS

OBJECTIVE: obtain instar I nauplii from *Artemia* cysts

1 CYST DENSITY

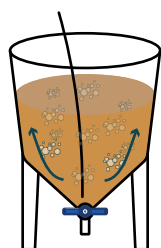


Apply pure oxygen

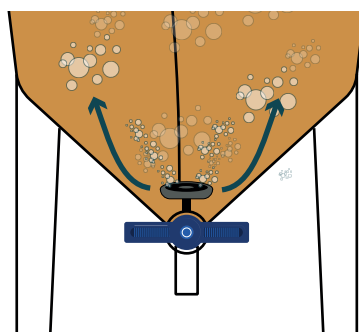


Monitor oxygen, pH and light well

2 AERATION



Aerate from the bottom of the tank



Avoid foam formation



Cyst disinfection reduces foam formation



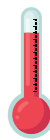
Oxygen levels above 2 mg/L

SALINITY



15-35 g/L

TEMPERATURE



25-30 °C

Constant between 25-30 °C

Optimal temperature is strain-dependent

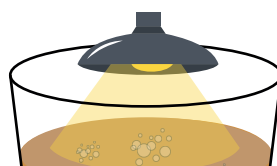
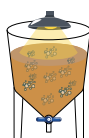
pH



If pH drops, adjust with NaOH or bicarbonate



ILLUMINATION



At least 2000 lux at the water surface

3 DURATION



Incubation time is strain and temperature dependent

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