



STEPS

OBJECTIVE: disinfect *Artemia* cysts

1

CYST TYPES

Only for cysts not previously disinfected

⚠ Not for cysts already coated with disinfection

Not for Sep-Art® *Artemia* cysts

2

HYDRATION

Prepare seawater between 20 and 30 °C

Add cysts (50 g/L)

Aerate strongly

Hydrate 1–2 hours

3

DISINFECTION

Add liquid bleach (NaOH) as disinfectant – 2 options:

A : 20 min at 1.4 mL NaOCl (14 % Cl₂) per liter seawater

B : 1 min at 71 mL NaOCl (14 % Cl₂) per liter seawater

Aerate continuously to homogenize suspension and avoid settling

4

WASHING AND DEACTIVATION

Collect on 100 µm sieve

Rinse cysts with clean and disinfected seawater

Alternatively, cysts can be rinsed inside the tank with a nylon or stainless-steel screen

Effluent neutralization:

Add sodium thiosulfate pentahydrate (Na₂S₂O₃·5H₂O) to neutralize active chlorine:

After Disinfection method A : 1 g per 1.4 mL NaOCl (14 % Cl₂)

OR

After Disinfection method B : 30 g per 71 mL NaOCl (14 % Cl₂)

5

APPLICATION

Incubate disinfected cysts immediately or harvest wet cysts for future use

⚠ Do not store cysts after disinfection

MATERIALS NEEDED:

 *Artemia* cysts

 Seawater

OR

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

 Disinfection

 Disinfected seawater

 Air supply

 Tank

 100 µm sieve

 Pipet

 Timer

 Thermometer

 Gloves

CHEMICALS

NaOCl solution (14 % Cl₂)



ATTENTION!

NaOCl releases chlorine gas – ensure good ventilation.

Wear proper personal protective equipment (e.g. goggles, gloves, gas mask).

Reaction releases heat – monitor temperature (<35 °C).

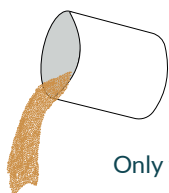
Add NaOCl carefully – avoid overdosing.

Store effluent appropriately or provide specialized collection. Do not discharge untreated effluent.

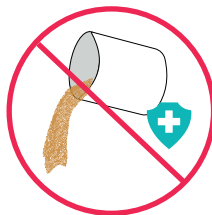
STEPS

OBJECTIVE: disinfect *Artemia* cysts

1 CYST TYPES



Only for cysts not previously disinfected



Not for cysts coated with disinfection product or Sep-Art®

2 HYDRATION



Cysts (50 g/L)



Aerate strongly



Hydrate
1 to 2 hours

3 DISINFECTION

A



1.4 mL NaOCl
(14 % Cl₂) per L
seawater



20 min



Aerate
continuously

OR

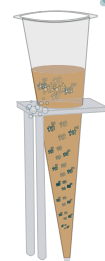
B



71 mL NaOCl
(14 % Cl₂) per L
seawater



1 min



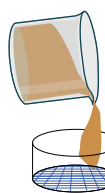
Aerate
continuously

4 WASHING AND DEACTIVATION

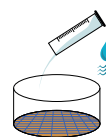
After Disinfection method A

Na₂S₂O₃·5H₂O

1 g per 1.4 mL
NaOCl (14 % Cl₂)



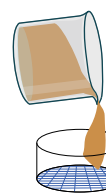
100 µm



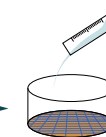
After Disinfection method B

Na₂S₂O₃·5H₂O

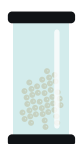
30 g per 71 mL
NaOCl (14 % Cl₂)



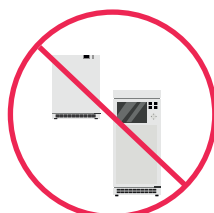
100 µm



5 APPLICATION



Incubate disinfected cysts
immediately or harvest wet
cysts for future use



Do not store cysts after
disinfection

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