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• Von Stosch (VS) enriched seawater medium solution

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Protocol status: Working We use this protocol and it's

working

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Abstract

This protocol outlines the steps required to prepare von Stosch (VS) enriched seawater medium modified according to Guiry & Cunningham (1984).

CITATION

M. D. Guiry & E. M. Cunningham (1984). Photoperiodic and temperature responses in the reproduction of north-eastern Atlantic Gigartina acicularis (Rhodophyta: Gigartinales). Phycologia.

LINK

https://doi.org/10.2216/i0031-8884-23-3-357.1

Protocol materials

Thiamine HCI P212121 Step 1.7
MilliQ water In 3 steps
Titriplex® III solution Merck MilliporeSigma (Sigma-Aldrich) Catalog #1099920001 Step 1.2
Sodium Glycerophosphate Catalog # S8041-100GM Step 1.3
Iron(II) sulfate heptahydrate Merck MilliporeSigma (Sigma-Aldrich) Catalog #215422 Step 1.4
Manganese(II) chloride tetrahydrate Merck MilliporeSigma (Sigma-Aldrich) Catalog #M3634 Step 1.5
Potassium iodide Step 1.9



Before start

It is important to follow the order of chemicals added as shown in the protocol.



Vitamin B12 stock solution

Note

The vitamin B12 stock solution has to be prepared separately to the primary solution and should be stored in the fridge.

Primary solution

- 1.1 In 🗸 4 L 🔯 MilliQ water **Sigma Aldrich** dissolve:
- 1.3 🚨 21.26 g 🔀 Sodium Glycerophosphate Sigma Aldrich Catalog # S8041-100GM
- 1.5 🗸 0.98 g 🔀 Manganese(II) chloride tetrahydrate Sigma Aldrich Catalog #M3634

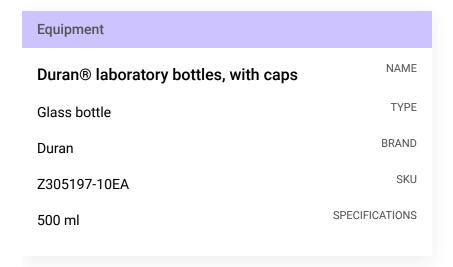
- 1.9 🚨 10 mg 🔀 Potassium iodide **Sigma Aldrich**



1.10 Pasteurise for 02:00:00 at \$ 99 °C

Storage

2 Store VS solution in Duran bottles in a cold and dark setting at 10 °C.



Application

3 Culturing medium is created by adding 4 200 mL VS to 4 10 L sterile seawater

Note

Add VS solution to seawater only after it has cooled down.

Citations

M. D. Guiry & E. M. Cunningham. Photoperiodic and temperature responses in the reproduction of north-eastern Atlantic Gigartina acicularis (Rhodophyta: Gigartinales)

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