

Preparation SN medium

- Under hood, to 800mL of seawater beforehand filter and autoclaved, add these nutriment beforehand autoclaved (except vitamin) :

Quantity	Compound	Stock Solution
2,0 mL	EDTA disodium salt dihydrate (Na ₂ EDTA-2H ₂ O)	2,8 g/L
2,0 mL	Sodium carbonate dihydrate (Na ₂ CO ₃ -H ₂ O)	6 g/L
2,0 mL	Sodium nitrate (NaNO ₃)	106,2 g/L
2,0 mL	Dipotassium phosphate (K ₂ HPO ₄)	3,05 g/L
250 µL	Ammonium chloride (NH ₄ Cl)	21,4 g/L
250 µL	Cyano Trace Metals (see recipe below)	
250 µL	Cyanocobalamin (Vit. B12)	8 µg/L
200mL	Steril milliQ water	
2,0 mL	Sodium sulfite (Na ₂ SO ₃)	126 g/L

- Filter the medium on 0,2microns (Don't autoclaved!)

Cyano Trace Metal Solution

- Dissolve all these components separately in milliQ water :

Quantity	Compound
6,25 g	Citric Acid·H ₂ O
6,0 g	Ferric Ammonium Citrate
1,4 g	Manganese (II) chloride tetrahydrate (MnCl ₂ -4H ₂ O)
0,39 g	Sodium molybdate dihydrate (Na ₂ MoO ₄ -2H ₂ O)
0,025 g	Cobalt nitrate hexahydrate (Co(NO ₃) ₂ -6H ₂ O)
0,222 g	Zinc sulfate heptahydrate (ZnSO ₄ -7H ₂ O)

- Combine the various solutions after full dissolution
- Make final volume up to 1L with milliQ water
- Store in refrigerator



The RCC team



Station Biologique de Roscoff,
CNRS/Université P. & M. Curie,
Place G. Teissier,
29680 Roscoff, France



Apparatus : Autoclave, Laminar
flow cabinet, Stainless Steel
Filter Holders

Solutions : Seawater, Sterile
water, Nutriment (see protocol)

Plasticware and filters : Bottle in
polycarbonate Nalgene, Pipette,
Glass fibre prefilters (Millipore,
AP1507500), Filters 0,22µm
GSWP (Millipore, GSWP09000)



ASSEMBLE
ASSOCIATION OF EUROPEAN MARINE BIOLOGICAL LABORATORIES