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 SN medium

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Roscoff Culture Collection¹

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Protocol status: Working

We use this protocol and it's working

Created: August 29, 2018

Last Modified: June 12, 2019

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Abstract

Used for some cyanobacteria in particular *Synechococcus*.

Before start

Please refer to our general recommendations to grow cultures :

<https://www.protocols.io/private/A48906DC1374AD6281495CB86A8F092F>

- 1
 - Autoclave and filter aged seawater
 - Work under laminar flow hood.
 - Add to 800mL of seawater the following nutriment that have been autoclaved beforehand (except vitamin)

<i>Quantity</i>	<i>Compound</i>	<i>Stock Solution</i>
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 0.2µm (do not autoclave)

2 Cyano Trace Metal Solution

- Dissolve all these components separately in milliQ water

<i>Quantity</i>	<i>Compound</i>
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