

Bacteria-free check media for marine algae

STP

NaNO ₃	20 mg
K ₂ HPO ₄	1 mg
Sodium glutamate	50 mg
Glucose	20 mg
Glycine	10 mg
D,L-Alanine	10 mg
Vitamin mix 8 ¹⁾	0.1 mL
Trypticase	20 mg
Yeast autolysate ²⁾	20 mg
Sucrose	100 mg
Soil extract	5 mL
Sea water	80 mL
Distilled water	15 mL
pH 7.5	

- 1) In the NIES-Collection, Vitamin mix 8 is replaced by Vitamin mix S₃.
- 2) In the NIES-Collection, yeast autolysate is replaced by yeast extract.

Reference

Provasoli, L., McLaughlin, J. J. A., Droop, M. R. 1957 The development of artificial media for marine algae. *Arch. Mikrobiol.*, **25**, 392-428.

Vitamin mix S₃

Thiamine HCl	5 mg
Nicotinic acid	1 mg
Calcium pantothenate	1 mg
<i>p</i> -Aminobenzoic acid	0.1 mg
Biotin	0.01 mg
Inositol	50 mg
Folic acid	0.02 mg
Thymine	30 mg
Distilled water	100 mL

Reference

Provasoli, L. 1963 Growing marine seaweeds. In *Proceedings of the Fourth International Seaweed Symposium*, University of Tokyo Press, Tokyo, p. 9-17.

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Soil extract

To 1000 mL distilled water add 200 mL of soil (soil from undisturbed deciduous woodland is best) and heat by autoclaving for 1 h at 105°C. When cool, heat by autoclaving for 1 h at 105°C again. Pass the supernatant through a GF/C filter and Celite, and then pass the filtrate through a GF/F filter. Adjust to 1000 mL by adding distilled water. Dispense 10 mL of the final filtrate into each test tube and sterilize by autoclaving for 20 min at 121°C. Keep in a cool place.

Reference

Provasoli, L., McLaughlin, J. J. A., Droop, M. R. 1957 The development of artificial media for marine algae. *Arch. Mikrobiol.*, **25**, 392-428.