

2ASW (Artificial Seawater)

Stocks	per litre
(1) Extra salts:	
NaNO ₃	15.00 g
Na ₂ HPO ₄	0.60 g
K ₂ HPO ₄	0.50 g
(2) Vitamin solution:	
Biotin	0.0002 g
Calcium pantothenate	0.02 g
Cyanocobalamin	0.004 g
Folic acid	0.0004 g
Inositol	1.0 g
Nicotinic acid	0.02 g
Thiamine HCl	0.1 g
Thymine	0.6 g
(3) Soil Extract 1 (See SE1 recipe)	

Medium	per litre
Tricine	0.50 g
NaCl	35.00 g
Stock solution 1	7.50 ml
Stock solution 2	2.50 ml
Stock solution 3 (SE1)	25.00 ml

Make up to 1 litre filtered natural seawater.* Adjust pH to **7.6 – 7.8** with 1M NaOH or 1M HCl, prior to autoclaving. Autoclave at 15 psi for 15 minutes.

*Alternatively, use deionised water to 1 litre and 33.6 g "Ultramarine Synthetica" sea salts.**

Supply

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Reference

L. Provasoli; J. J. A. McLaughlin; M. R. Droop (1957). The development of artificial media for marine algae. , 25(4), 392–428. – adapted for CCAP

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