

108: ZM/10

Mail sol. C108

Bacto peptone	0.50	g
Yeast extract	0.10	g
Agar (Bacto)	15.00	g
Marine Supplement Stock	10.00	ml
Sea water (filtered)	750.00	ml
Deionized water	250.00	ml

Make up to 1 litre with 75% filtered seawater: 25% deionized water. Autoclave at 15 psi for 15 minutes. Cool to approx. 55 °C and add sterile marine supplement.

Marine Supplement Stock

1. First prepare primary stocks for marine supplement stock:

Trace elements (x10 concentration)	1.00	ml
Vitamin mix	1.00	ml
Na ₂ SeO ₃ (0.002 g/l stock solution)	1.00	ml

2. Autoclave at 15 psi for 15 minutes. Once at room temperature add Primary stock 2 (Vitamin mix).

Trace elements (x10 concentration)

Na ₂ -EDTA	8.320	g
FeCl ₃ x 6 H ₂ O	6.300	g
CuSO ₄ x 5 H ₂ O	0.020	g
ZnSO ₄ x 7 H ₂ O	0.044	g
CoCl ₂ x 6 H ₂ O	0.020	g
MnCl ₂ x 4 H ₂ O	0.360	g
Na ₂ MoO ₄ x 2 H ₂ O	0.012	g

Vitamin mix

Cyanocobalamin	0.001	g
Biotin	0.020	g
Thiamine HCl	0.050	g
Calcium pantothenate	0.050	g
Folic acid	0.020	g
Riboflavin	0.050	g
Nicotinamide	0.050	g

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Dissolve vitamins one at a time; adjust the pH to 7 with 1 M NaOH or 1 M HCl if necessary, to dissolve the biotin and folic acid. Filter sterilise. Dispense excess into 1 ml aliquots and freeze.