

105: Walne's

Final volume: 1000 ml

Mail sol. C105

Nutrient solution	1.00	ml
Vitamin solution	0.10	ml
Sea water (sterilized)	1000.00	ml

Dispense nutrient and vitamin solutions separately into 10 ml and 1 ml respectively and autoclave at 15 psi for 15 minutes. Add an aliquot of each aseptically to 10 litres of sterilised seawater.

Nutrient solution

FeCl ₃ x 6 H ₂ O	1.30	g
MnCl ₂ x 4 H ₂ O	0.36	g
H ₃ BO ₃	33.60	g
Na ₂ -EDTA	45.00	g
NaH ₂ PO ₄ x 2 H ₂ O	20.00	g
NaNO ₃	100.00	g
Trace metal solution (TMS)	1.00	ml
Distilled water	1000.00	ml

Make up to 1 litre with distilled water.

Vitamin solution

Cyanocobalamine	10.00	mg
Thiamine HCl	10.00	mg
Biotin	200.00	µg
Distilled water	100.00	ml

Make up to 100 ml with distilled water.

Trace metal solution (TMS)

ZnCl ₂	2.10	g
CoCl ₂ x 6 H ₂ O	2.00	g
(NH ₄) ₆ Mo ₇ O ₂₄ x 4 H ₂ O	0.90	g
CuSO ₄ x 5 H ₂ O	2.00	g
Distilled water	100.00	ml

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Make up to 100 ml with distilled water. This solution is normally cloudy. Acidify with a few drops of conc. HCl to give a clear solution.