

## **WALNE'S MEDIUM FOR ALGAL CULTURES**

Recommended for large volumes of aquaculture strains

Stocks			per 100 ml
	(1)	Trace metal solution (TMS) $ZnCl_2$ $CoCl_2.6H_2O$ $(NH_4)_6Mo_7O_{24}.4H_2O$ $CuSO_4.5H_2O$ Make up to 100 ml with distilled water. This cloudy. Acidify with a few drops of conc. HCl to $Q$	
	(2)	Vitamin solution Vitamin B <sub>12</sub> . (Cyanocobalamin) Vitamin B <sub>1</sub> (Thiamine.HCl) Vitamin H (Biotin) Make up to 100 ml with distilled water.	10.0 mg 10.0 mg 200.0 µg <b>per litre</b>
	(3)	Nutrient solution FeCl <sub>3</sub> .6H <sub>2</sub> 0 MnCl <sub>2</sub> .4H <sub>2</sub> 0 H <sub>3</sub> BO <sub>3</sub> EDTA(Disodium salt) NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> O NaNO <sub>3</sub> TMS (1 above) Make up to 1 litre with distilled water.	1.3 g 0.36 g 33.6 g 45.0 g 20.0 g 100.0 g 1.0 ml

Medium	per litre
Nutrient solution (3)	1.0 ml
Vitamin solution (2)	0.1 ml
Sterilised seawater	1.0 litre

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.

## Reference

Walne PR (1970) Studies on the food value of nineteen genera of algae to juvenile bivalves of the genera *Ostrea*, *Crassostrea*, *Mercenaria*, and *Mytilis*. Fish. Invest. **26**, 1-62.

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normally solution.