

 Culture Collection of algae & protozoa	QF 09 Media Preparation Recipe Template	Revision: 002 Approved: 29 MAY 26
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YT75S+V (Yeast Tryptone - 75% Seawater + Vitamins)

Heterotrophic Diatoms

Stocks

(1) f/2 stock 4 Vitamin mix:	per litre
Cyanocobalamin (Vitamin B ₁₂)	0.0005 g
Biotin	0.0005 g
Thiamine HCl (Vitamin B ₁)	0.1g

For ease of measuring, first prepare primary stock solutions and divide into 1ml aliquots to be frozen for later use.

Component	Primary Stock solution	Quantity	Molar Concentration in final medium
Thiamine HCl (B ₁)	-	100mg	2.96×10^{-7}
Biotin	0.1g L ⁻¹ dH ₂ O	5ml	2.05×10^{-9}
Cyanocobalamin (B ₁₂)	0.1g L ⁻¹ dH ₂ O	5ml	3.69×10^{-10}

Medium

	per litre
Natural filtered seawater	750.0 ml
Deionised water	250.0 ml
Tryptone	0.05 g
Yeast extract	0.01 g
Stock solution 1 (Vitamin mix)	1.0 ml

Make up the 75% seawater and gently heat (do not bring to boil). Then, add and dissolve the Tryptone and yeast extract. Finally, add the vitamin mix.

For agar, cool slightly and add 15 g per litre Bacteriological Agar. Autoclave at 15 psi for 15 minutes.

Reference

Recipe devised by CCAP

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