

1353: YTBC - MEDIUM

Yeast extract	1.00	g
Tryptone	5.00	g
Casamino acids	5.00	g
Beef extract (Lab-Lemco-Powder)	5.00	g
K ₂ HPO ₄	1.00	g
NH ₄ NO ₃	1.00	g
Na ₂ S x 9 H ₂ O	0.25	g
Cysteine HCl	0.25	g
NiCl ₂ x 6 H ₂ O	7.50	mg
Trace element solution	5.00	ml
Resazurin (0.1% v/v)	0.50	ml
Artificial seawater solution	250.00	ml
Distilled water	750.00	ml

Prepare the liquid medium without Na₂S and cysteine-HCl. Boil the medium in a water bath and cool under N₂:CO₂ (80:20 v/v) to room temperature. Adjust to pH 7.0 with 10 M NaOH solution. Dispense the medium into Hungate tubes or serum bottles. Sterilize by autoclaving. Before inoculating add Na₂S and cysteine-HCl from sterile stock solutions.

Trace element solution

FePO ₄	1.00	g
Na ₂ WO ₄ x 2 H ₂ O	0.01	g
Na ₂ SO ₃ x 5 H ₂ O	0.01	g
Distilled water	500.00	ml

Artificial seawater solution

NaCl	20.00	g
MgCl ₂ x 6 H ₂ O	3.00	g
MgSO ₄ x 7 H ₂ O	6.00	g
NaHCO ₃	0.20	g
CaCl ₂ x 2 H ₂ O	0.30	g
KCl	0.50	g
KH ₂ PO ₄	0.42	g
NaBr	0.05	g
SrCl ₂	0.02	g
Fe(NH ₄)citrate	0.01	g
(NH ₄) ₂ SO ₄	1.00	g
Distilled water	1000.00	ml