

1058c. THIOHALORHABDUS DENITRIFICANS MEDIUM

NaCl	180.00	g
K ₂ HPO ₄	1.50	g
NH ₄ Cl	0.50	g
Trace element solution (see medium 1369)	1.00	ml
CaCl ₂ x 2 H ₂ O	0.05	g
MgSO ₄ x 7 H ₂ O	0.50	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	5.00	g
NaHCO ₃	5.00	g
Seven vitamins solution (see medium 503)	1.00	ml
Distilled water	1000.00	ml

Dissolve sodium chloride, potassium hydrogenphosphate and ammonium chloride, then sparge solution with 80% N₂ and 20% CO₂ gas mixture for at least 30 – 45 min to remove dissolved oxygen and to saturate the solution with CO₂. Dispense solution in vials suitable for anaerobic cultures (e.g. Balch-type tubes) to 50% volume under air atmosphere. Close vials with butyl rubber septa to prevent free exchange of oxygen with the external atmosphere and autoclave. Add trace elements, calcium chloride, magnesium sulfate, thiosulfate, bicarbonate and vitamins from sterile stock solutions and adjust pH of the medium to 7.5 - 7.8 using a sterile stock solution of sodium carbonate (5% w/v).

Note: Use at least 10% (v/v) as inoculum.