

1058d. THIOHALOMONAS DENITRIFICANS MEDIUM

NaCl	120.00	g
K ₂ HPO ₄	1.50	g
NH ₄ Cl	0.50	g
KNO ₃	1.00	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, ammonium chloride and potassium nitrate, then sparge solution with 80% N₂ and 20% CO₂ gas mixture for at least 30 – 45 min to remove dissolved oxygen. Dispense solution under same gas atmosphere in vials suitable for anaerobic cultures (e.g. Balch-type tubes) to 50% volume, close vials with butyl rubber septa and autoclave. Add trace elements, calcium chloride, magnesium sulfate, thiosulfate, and vitamins from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Vitamins should be sterilized by filtration. Adjust pH of the complete medium to 7.5 - 7.8 using a sterile anoxic stock solution of sodium carbonate (5% w/v) prepared under 80% N₂ and 20% CO₂ gas atmosphere.

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

For DSM 16925 reduce amount of thiosulfate to 1.00 g/l.