

786. DETHIOSULFOVIBRIO PEPTIDOVORANS MEDIUM

NH ₄ Cl	1.00	g
K ₂ HPO ₄	0.30	g
KH ₂ PO ₄	0.30	g
MgCl ₂ x 6 H ₂ O	3.00	g
CaCl ₂ x 2 H ₂ O	0.10	g
KCl	0.10	g
Na-acetate	0.50	g
Yeast extract (OXOID)	1.00	g
Trypticase peptone (BD BBL)	5.00	g
NaCl	30.00	g
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.50	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	5.00	g
L-Cysteine-HCl x H ₂ O	0.50	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, thiosulfate, cysteine and sulfide. Sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add thiosulfate, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Stock solutions of thiosulfate and vitamins should be sterilized by filtration. The pH of the complete medium should be 7.2 - 7.4.