

663. DESULFITOBACTERIUM MEDIUM

KH ₂ PO ₄	5.44	g
MgCl ₂ x 2 H ₂ O	0.18	g
CaCl ₂ x 2 H ₂ O	0.03	g
NH ₄ Cl	0.50	g
Trace element solution (see medium 144)	5.00	ml
Yeast extract	1.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Na-pyruvate	2.50	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	2.00	g
Vitamin solution (see medium 141)	20.00	ml
L-Cysteine-HCl x H ₂ O	0.40	g
Na ₂ S x 9 H ₂ O	0.40	g
Distilled water	1000.00	ml

Dissolve ingredients (except pyruvate, thiosulfate, vitamins, cysteine and sulfide), then sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add pyruvate, thiosulfate, vitamins, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Stock solutions of pyruvate and vitamins are sterilized by filtration. Adjust medium pH to 7.5 by adding sterile anoxic 1 N NaOH.