

1166a. DESULFURIBACILLUS MEDIUM (ARSENATE)

NaCl	6.00	g
K ₂ HPO ₄	1.00	g
Na ₂ SO ₄	2.80	g
NaHCO ₃	8.00	g
Na ₂ CO ₃	22.00	g
NH ₄ Cl	0.20	g
MgCl ₂ x 6 H ₂ O	0.20	g
Trace elements solution (see medium 1369)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract	0.05	g
Vitamin solution (see medium 141)	10.00	ml
Na-pyruvate	2.20	g
Na ₂ HAsO ₄ x 7H ₂ O	6.20	g
Na ₂ S x 9 H ₂ O	0.24	g
Distilled water	1000.00	ml

Dissolve sodium chloride, hydrogenphosphate and sodium sulfate, then sparge solution with 100% N₂ gas for 30 - 45 min to make it anoxic. Add and dissolve hydrogencarbonate and carbonate, then dispense under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add ammonium chloride, magnesium chloride, trace elements, yeast extract, vitamins, pyruvate, arsenate and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Stock solutions of vitamins, pyruvate and arsenate should be sterilized by filtration. Adjust pH of complete medium to 9.5 - 10.