

846a. AMINOBACTERIUM MEDIUM

NH ₄ Cl	0.30	g
K ₂ HPO ₄	0.20	g
KH ₂ PO ₄	0.30	g
CaCl ₂ x 2 H ₂ O	0.15	g
KCl	0.50	g
NaCl	20.00	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract	2.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
MgCl ₂ x 6 H ₂ O	3.00	g
NaHCO ₃	5.00	g
L-Serine	1.05	g
Vitamins solution (see medium 141)	10.00	ml
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 magnesium chloride, bicarbonate, serine, vitamins, cysteine and sulfide), then sparge medium with 80% N₂ and 20% CO₂ gas mixture 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 magnesium chloride, serine, vitamins, cysteine and sulfide 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 atmosphere. The vitamin solution should be sterilized by filtration. Adjust pH of the complete medium to 7.2, if necessary.