

829a. DESULFUROBACTERIUM ATLANTICUM MEDIUM

NaCl	30.00	g
MgCl ₂ x 6 H ₂ O	3.00	g
CaCl ₂ x 2 H ₂ O	0.15	g
KCl	0.50	g
NH ₄ Cl	0.50	g
MES [2-(N-morpholino) ethane sulfonic acid]	1.95	g
KH ₂ PO ₄	0.20	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ S ₂ O ₃ x 5 H ₂ O	2.50	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except thiosulfate and sodium sulfide), adjust pH to 6.0, boil medium for 1 min, then cool to room temperature under 80% H₂ and 20% CO₂ gas atmosphere. Dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add sodium thiosulfate from an anoxic stock solution prepared under 100% N₂ gas and sterilized by filtration. Reduce medium with a sterile, neutralized solution of sodium sulfide prepared under 100% N₂ gas (see medium 29). Adjust pH of complete medium to 6.0, if necessary. After inoculation pressurize cultivation vessels to 2 bar overpressure using sterile 80% H₂ and 20% CO₂ gas mixture.