

1098. ARCHAEOGLOBUS INFECTUS MEDIUM

NaCl	30.00	g
MgCl ₂ x 6 H ₂ O	0.75	g
CaCl ₂ x 2 H ₂ O	0.15	g
NH ₄ Cl	0.54	g
Na-Acetate	1.60	g
Trace elements solution (see medium 318)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
KH ₂ PO ₄	0.60	g
K ₂ HPO ₄	0.10	g
Na ₂ CO ₃	1.00	g
2-Mercaptoethanesulfonic acid (coenzyme M)	0.14	g
Vitamins solution (see medium 141)	1.00	ml
Na ₂ S ₂ O ₃ x 5 H ₂ O	3.20	g
Na ₂ S x 9 H ₂ O	0.36	g
Distilled water	1000.00	ml

Dissolve ingredients (except phosphates, carbonate, coenzyme M, vitamins, thiosulfate and sulfide), then sparge medium with 80% H₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic serum vials (e.g., Balch-type tubes) and autoclave. Add phosphates, vitamins, coenzyme M, thiosulfate 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. The vitamin solution should be sterilized by filtration. Adjust pH of the complete medium to 6.5. After inoculation pressurize culture vessels to 1.5 bar overpressure with sterile 80% H₂ and 20% CO₂ gas mixture.