

1098. ARCHAEOGLOBUS INFECTUS MEDIUM

Sea Salts (SIGMA)	35.00	g
NH ₄ Cl	0.10	g
KH ₂ PO ₄	0.05	g
Na-Acetate	1.60	g
Yeast extract	0.10	g
Wolfe's mineral elixier (see medium 792)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO ₃	2.00	g
2-Mercaptoethanesulfonic acid (coenzyme M)	0.14	g
Vitamins solution (see medium 503)	1.00	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 bicarbonate, 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 coenzyme M, vitamins, 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 vitamins 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.