

1211. CALDISERICUM MEDIUM

K ₂ HPO ₄	0.05	g
KH ₂ PO ₄	0.09	g
NH ₄ Cl	0.25	g
MgSO ₄ x 7 H ₂ O	0.25	g
CaCl ₂ x 2 H ₂ O	0.15	g
Yeast extract	5.00	g
Trace mineral solution (see medium 318)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	0.25	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	2.50	g
Vitamin solution (see medium 141)	2.00	ml
L-Cysteine-HCl x H ₂ O	0.25	g
Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, thiosulfate, vitamins and reducing agents) and 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 thiosulfate, vitamin solution, sulfide and cysteine 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 mixture. The pH of the complete medium should be at 6.5 – 6.8.