

873. THERMOANAEROVIBRIO MEDIUM

NH ₄ Cl	0.33	g
KH ₂ PO ₄	0.33	g
KCl	0.33	g
NaHCO ₃	0.80	g
Yeast extract (OXOID)	0.25	g
Peptone (BD Bacto)	0.25	g
Trace elements solution SL-10 (see medium 320)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
MgCl ₂ x 6 H ₂ O	0.33	g
CaCl ₂ x 2 H ₂ O	0.22	g
Na ₂ CO ₃	1.50	g
Vitamin solution (see medium 141)	10.00	ml
D-Glucose	3.00	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients, except magnesium chloride, calcium chloride, carbonate, vitamins, glucose and sulfide, then sparge medium for 30 – 45 min with 80% N₂ and 20% CO₂ gas mixture to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving, add magnesium chloride, calcium chloride, vitamins, glucose 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 mixture. Vitamins should be sterilized by filtration. Adjust pH of the complete medium to 7.0 - 7.3, if necessary.