

827. THERMOANAEROBACTER SULFUROPHILUS MEDIUM

NH ₄ Cl	0.33	g
KCl	0.33	g
KH ₂ PO ₄	0.33	g
MgCl ₂ x 6 H ₂ O	0.33	g
CaCl ₂ x 2 H ₂ O	0.33	g
Trace element solution SL10 (see medium 320)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Sulfur, powdered	10.00	g
NaHCO ₃	1.50	g
Yeast extract	0.50	g
Vitamins solution (see medium 141)	10.00	ml
D-Glucose	5.00	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except sulfur, bicarbonate, yeast extract, vitamins, glucose and sulfide, then 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 containing already the appropriate amount of sulfur. Heat the medium vials to 90-100°C for 1 hour on each of 3 successive days to sterilize the medium. Add yeast extract, vitamins (sterilized by filtration), glucose and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Prior to use check pH of complete medium and adjust to 6.8 - 7.0, if necessary.

For [DSM 16547](#) supplement medium with 3.00 g/l Trypticase peptone.