827. THERMOANAEROBACTER SULFUROPHILUS MEDIUM

NH_4Cl	0.33	g
KCl	0.33	g
KH_2PO_4	0.33	g
$MgCl_2$ x 6 H_2O	0.33	g
$CaCl_2$ x 2 H_2O	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
Na_2CO_3	1.00	g
Yeast extract	0.50	g
Vitamins solution (see medium 141)	10.00	ml
D-Glucose	5.00	g
Na_2S x 9 H_2O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except sulfur, carbonate, yeast extract, vitamins, glucose and sulfide, then sparge medium with 80% N_2 and 20% CO_2 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% N_2 gas and carbonate from a sterile anoxic stock solution prepared under 80% N_2 and 20% CO_2 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.