

829c. DESULFUROBACTERIUM CRINIFEX MEDIUM

Sea Salts (SIGMA)	30.00	g
NH ₄ Cl	1.00	g
KH ₂ PO ₄	0.35	g
MES [2-(N-morpholino) ethane sulfonic acid]	1.95	g
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Sulfur, powdered	10.00	g
NaHCO ₃	1.00	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except sulfur, bicarbonate, vitamins and sulfide), boil medium for 1 min, then cool to room temperature under 80% H₂ and 20% CO₂ gas atmosphere. Adjust pH to 6.0 and dispense under 80% H₂ and 20% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials which contain already the appropriate amount of sulfur. Autoclave at a temperature of **110°C** for 20 min! Add vitamins and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas atmosphere and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Vitamins are sterilized by filtration. Adjust pH of the complete medium to 6.0 – 6.5, if necessary. After inoculation use 1 bar overpressure of sterile 80% H₂ and 20% CO₂ gas mixture.

For DSM 16304 adjust pH to 5.5.