

897: IGNICOCCUS MEDIUM

NaCl	13.65	g
MgSO ₄ x 7 H ₂ O	3.50	g
MgCl ₂ x 6 H ₂ O	2.75	g
KH ₂ PO ₄	0.50	g
(NH ₄) ₂ SO ₄	0.25	g
CaCl ₂ x 2 H ₂ O	0.38	g
KCl	0.33	g
NaBr	0.05	g
H ₃ BO ₃	15.00	mg
SrCl ₂ x 6 H ₂ O (0.1% w/v)	7.00	ml
KI (0.01% w/v)	0.50	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Sulfur (powdered)	5.00	g
Meat extract	1.00	g
Na ₂ S x 9 H ₂ O	0.20	g
Distilled water	1000.00	ml

1. Dissolve ingredients except sulfur, meat extract and sulfide, adjust pH to 5.0 - 5.5 with 2 N H₂SO₄ and sparge medium with 80% H₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Distribute medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials already containing the appropriate amount of sulfur, only to 30% of their volume to allow for a large head space. For sterilization heat cultivation vessels in boiling water for 1 -2 hours on each of 3 successive days. Add meat extract and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas atmosphere.
2. After inoculation pressurize the vessels with sterile 80% H₂ and 20% CO₂ gas mixture to 2 bar overpressure.

For DSM 18386: Prepare medium without meat extract.