

561. SULFURIFERULA MEDIUM

KCl	0.30	g
MgCl ₂ x 6 H ₂ O	2.75	g
MgSO ₄ x 7 H ₂ O	3.45	g
NH ₄ Cl	1.25	g
CaCl ₂ x 2 H ₂ O	0.14	g
K ₂ HPO ₄	0.14	g
NaCl	0.50	g
Trace element solution (see medium 141)	10.00	ml
NiCl ₂ x 6 H ₂ O solution (0.1% w/v)	5.00	ml
Na ₂ WO ₄ x 2 H ₂ O solution (0.1% w/v)	0.50	ml
Distilled water	1000.00	ml

Dissolve ingredients, adjust pH to 6.0 with H₂SO₄ and sparge medium with 80% H₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into serum vials (e.g., 20 ml medium in 100 ml bottles) and autoclave. Adjust medium pH to 6.0, if necessary. After inoculation, add by injection 3% (v/v) sterile air (usually 9 ml per bottle) and pressurize bottles with sterile 80% H₂ and 20% CO₂ gas mixture to 2 bar overpressure.