

150a. ACIDITHIOBACILLUS CALDUS MEDIUM

(NH ₄) ₂ SO ₄	3.00	g
K ₂ HPO ₄ x 3 H ₂ O	0.50	g
MgSO ₄ x 7 H ₂ O	0.50	g
KCl	0.10	g
Ca(NO ₃) ₂	0.01	g
Trace element solution (see below)	10.00	ml
Sulfur, powdered	5.00	g
Distilled water	1000.00	ml

Dissolve ingredients except trace elements and sulfur. Adjust pH with 6 N H₂SO₄ to 2.5, dispense into suitable cultivation vessels and autoclave. After autoclaving add filter-sterilized trace elements solution (see below) and sterile sulfur powder (sterilized by steaming for 3 hours on each of 3 successive days).

Trace element solution:

FeCl ₃ x 6 H ₂ O	11.0	mg
CuSO ₄ x 5 H ₂ O	0.5	mg
H ₃ BO ₃	2.0	mg
MnSO ₄ x H ₂ O	2.0	mg
Na ₂ MoO ₄ x 2 H ₂ O	0.8	mg
CoCl ₂ x 6 H ₂ O	0.6	mg
ZnSO ₄ x 7 H ₂ O	0.9	mg
Distilled water	10.0	ml