

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 x 4 H ₂ O	0.02	g
Trace element solution	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. For sterilization place the sulfur in screw-capped tubes or bottles, wet with a few drops of water and heat for 3 hours to 90 - 100°C in a water bath on each of three successive days. Before use, aseptically layer the sulfur onto the surface of the autoclaved liquid basal medium.

Trace element solution

FeCl ₃ x 6 H ₂ O	1.10	g
CuSO ₄ x 5 H ₂ O	0.05	g
H ₃ BO ₃	0.20	g
MnSO ₄ x H ₂ O	0.20	g
Na ₂ MoO ₄ x 2 H ₂ O	0.08	g
CoCl ₂ x 6 H ₂ O	0.06	g
ZnSO ₄ x 7 H ₂ O	0.09	g
Distilled water	1000.00	ml