

71: ACIDITHIOBACILLUS THIOOXIDANS MEDIUM

This recipe contains strain-specific modifications for *Acidithiobacillus thiooxidans* DSM 103717 *

Final pH: 4.4 - 4.7

Final volume: 1000 ml

KH ₂ PO ₄	3.00	g
MgSO ₄ x 7 H ₂ O	0.50	g
(NH ₄) ₂ SO ₄	3.00	g
CaCl ₂ x 2 H ₂ O	0.25	g
Na₂S₂O₃ x 5 H₂O	5.00	g
Elemental sulfur	10.00	g
Distilled water	1000.00	ml

1. Prepare the medium without thiosulfate, adjust pH to 4.4 - 4.7 and autoclave at 121°C for 15 min. Sterilize thiosulfate separately by filtration and add after autoclaving.

2. Note: Incubate statically without shaking.

* Omit thiosulfate from the medium and add 10.00 g/l elemental sulfur as substrate. For sterilization place the sulfur in screw-capped tubes, add 1-2 drops of distilled water and incubate on 3 successive days for 3 h at 90-100°C in a water bath. Before use, aseptically layer the sulfur onto the surface of autoclaved liquid basal medium.