

901. ACIDOLOBUS ACETICUS MEDIUM

NH ₄ Cl	0.33	g
KCl	0.33	g
KH ₂ PO ₄	0.33	g
MgCl ₂ x 6 H ₂ O	0.33	g
CaCl ₂ x 2 H ₂ O	0.33	g
Trace mineral solution SL-10 (see medium 320)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Sulfur, powdered	10.00	g
Yeast extract	3.00	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9 H ₂ O	0.45	g
Distilled water	1000.00	ml

Dissolve ingredients except sulfur, yeast extract, vitamins and sulfide. Adjust pH to 3.5 with H₂SO₄ and sparge medium with 100% CO₂ gas for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials containing the appropriate amount of sulfur. Heat vessels containing medium to 90°C for 1 hour on each of 3 successive days. Add yeast extract, vitamins (sterilized by filtration) and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. The sulfide stock solution (3% w/v) should be neutralized before use (see medium 29). The pH of the complete medium should be at 3.5 - 3.8.

For [DSM 16705](#) reduce the amount of yeast extract to 0.10 g/l and supplement medium after sterilization with 2.00 g/l D-glucose added from a sterile anoxic stock solution.