

358. ACIDIANUS MEDIUM (AEROBIC)

(NH ₄) ₂ SO ₄	1.30	g
KH ₂ PO ₄	0.28	g
MgSO ₄ x 7 H ₂ O	0.25	g
CaCl ₂ x 2 H ₂ O	0.07	g
FeCl ₃ x 6 H ₂ O	0.02	g
Allen's trace element solution (see medium 88)	10.00	ml
Yeast extract (OXOID)	1.00	g
Sulfur, powder	5.00	g
Distilled water	1000.00	ml

Dissolve ingredients, except sulfur, bring medium to the boil, then cool to room temperature and adjust pH to 2.5 using 10 N H₂SO₄. Dispense medium under air atmosphere enriched with 1 - 10% CO₂ in culture vessels suitable for anaerobic cultivation (e.g., 20 ml medium in 100 ml serum bottles) containing already the appropriate amount of sulfur. For sterilization sealed bottles with medium are heated in a boiling water bath for 2 - 3 h on each of 3 successive days.

Note: Inoculate with 5% (w/v) culture. Incubate without shaking.