

358: ACIDIANUS MEDIUM (AEROBIC)

$(\text{NH}_4)_2\text{SO}_4$	1.30	g
KH_2PO_4	0.28	g
$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	0.25	g
$\text{CaCl}_2 \times 2 \text{ H}_2\text{O}$	0.07	g
$\text{FeCl}_3 \times 6 \text{ H}_2\text{O}$	0.02	g
Allen's trace element solution	10.00	ml
Yeast extract (OXOID)	1.00	g
Sulfur (powder)	5.00	g
Distilled water	1000.00	ml

1. Dissolve ingredients, except sulfur, bring medium to the boil, then cool to room temperature and adjust pH to 2.5 using 10 N H_2SO_4 . Dispense medium under air atmosphere enriched with 1 - 10% CO_2 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.

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

Allen's trace element solution (from medium 88)

$\text{MnCl}_2 \times 4 \text{ H}_2\text{O}$	180.00	mg
$\text{Na}_2\text{B}_4\text{O}_7 \times 10 \text{ H}_2\text{O}$	450.00	mg
$\text{ZnSO}_4 \times 7 \text{ H}_2\text{O}$	22.00	mg
$\text{CuCl}_2 \times 2 \text{ H}_2\text{O}$	5.00	mg
$\text{Na}_2\text{MoO}_4 \times 2 \text{ H}_2\text{O}$	3.00	mg
$\text{VOSO}_4 \times 2 \text{ H}_2\text{O}$	3.00	mg
$\text{CoSO}_4 \times 7 \text{ H}_2\text{O}$	1.00	mg
Distilled water	1000.00	ml

Adjust pH of final solution to 2 with 1 N HCl.