

95: DESULFUROMONAS ACETOXIDANS MEDIUM

Solution A	951.00	ml
Solution B	3.00	ml
Solution C	40.00	ml
Solution D	10.00	ml

Sparge solution A with 100% N₂ gas for 30 - 45 min to make it anoxic. Dispense solution under same gas atmosphere into anoxic Hungate-type tubes or serum vials and sterilize by autoclaving. Solutions B and D are autoclaved separately under 100% N₂ gas atmosphere. Solution C is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. The medium is completed before use by adding appropriate amounts of solutions B, C and D to solution A. Adjust pH of complete medium to 7.2, if necessary.

Solution A

KH ₂ PO ₄	1.00	g
NH ₄ Cl	0.30	g
MgSO ₄ × 7 H ₂ O	1.00	g
MgCl ₂ × 6 H ₂ O	2.00	g
NaCl	20.00	g
CaCl ₂ × 2 H ₂ O	0.10	g
Na ₂ SO ₄	1.77	g
Trace element solution SL-11	1.00	ml
Na ₂ -DL-malate	2.66	g
Yeast extract	0.50	g
Sodium resazurin (0.1% w/v)	0.50	ml
Distilled water	950.00	ml

Adjust pH to 6.0 with 2 N NaOH.

Solution B

Ethanol	0.30	ml
Distilled water	2.70	ml

Solution C

NaHCO ₃	1.85	g
Distilled water	40.00	ml

Solution D

Na ₂ S × 9 H ₂ O	0.30	g
Distilled water	10.00	ml

Trace element solution SL-11 (from medium 722)

Na ₂ -EDTA x 2 H ₂ O	5.20	g
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	1000.00	ml

Dissolve EDTA in 800 ml distilled water, adjust pH to 7 using 2 N NaOH and add ferrous chloride. After ferrous chloride has dissolved add other compounds. Finally adjust pH to 6.0 and bring volume to 1000 ml.