

69. STARKEYA NOVELLA MEDIUM

Solution A:

Na ₂ HPO ₄ x 12 H ₂ O	10.60	g
KH ₂ PO ₄	1.50	g
NH ₄ Cl	0.30	g
Yeast extract	0.30	g
Phenol red solution (0.1% w/v)	2.00	ml
Bacto agar (for solid medium)	15.00	g
Distilled water	900.00	ml

Solution B:

MgSO ₄ x 7 H ₂ O	0.10	g
Distilled water	50.00	ml

Solution C:

Trace element solution (see below)	5.00	ml
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Solution D:

Na ₂ S ₂ O ₃ x 5 H ₂ O	5.00	g
Distilled water	50.00	ml

Solutions A, B, C and D are sterilized separately by autoclaving and mixed when cooled to room temperature. Adjust pH of complete medium to 8.5 with sterile 0.5 N NaOH.

Trace element solution (Vishniac and Santer, 1957):

Na ₂ -EDTA	50.00	g
ZnSO ₄ x 7 H ₂ O	22.00	g
CaCl ₂ x 2 H ₂ O	5.54	g
MnCl ₂ x 4 H ₂ O	5.06	g
FeSO ₄ x 7 H ₂ O	5.00	g
(NH ₄) ₆ Mo ₇ O ₂₄ x 4 H ₂ O	1.10	g
CuSO ₄ x 5 H ₂ O	1.57	g
CoCl ₂ x 6 H ₂ O	1.61	g
Distilled water	1000.00	ml

Dissolve EDTA in distilled water, adjust pH to 7 using 2 N KOH, then add remaining compounds. Adjust pH of final solution to 6.0 with KOH.