

1032. MEDIUM FOR METHYLOBACTERIUM PODARIUM

Na ₂ HPO ₄ x 2H ₂ O	7.9	g
KH ₂ PO ₄	1.5	g
NH ₄ Cl	0.8	g
MgSO ₄ x 7H ₂ O	0.1	g
Trace elements solution (below)	10.0	ml
Methylamine (10-20 mM)	1.4	g
Agar	15.0	g
Distilled water	1000.0	ml

initial pH 7.3 - 7.4

sterilize by 115°C / 10 min

Trace elements solution:

EDTA	50.00	g
ZnSO ₄ x 7 H ₂ O	1.00	g
CaCl ₂ x 2 H ₂ O	7.34	g
MnCl ₂ x 4 H ₂ O	2.50	g
CoCl ₂ x 6 H ₂ O	0.50	g
(NH ₄) ₆ Mo ₇ O ₂₄	0.50	g
FeSO ₄ x 7 H ₂ O	5.00	g
CuSO ₄ x 5 H ₂ O	0.20	g
Distilled water	1000.00	ml

Dissolve the EDTA in about 400 ml of water, then add 9 g NaOH. Dissolve each of the salts individually in about 40-50 ml of water and add them to the EDTA-NaOH solution. Adjust the final pH of the solution to pH 6.0 with 1M NaOH (about 24 ml). Make up to 1 litre with distilled water, store in the dark and do not autoclave the stock solution before it is added to the medium.

DO NOT AUTOCLAVE THE STOCK SOLUTION!!!