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!!!