Microorganisms



1180. METHYLOMICROBIUM MEDIUM

NaCl	30.00	g
$MgSO_4 \times 7 H_2O$	0.20	g
CaCl ₂ x 2 H ₂ O	0.02	g
KNO ₃	1.00	g
Trace elements (see below)	1.00	ml
Distilled water	1000.00	ml

Dispense the medium into the culture vessels. For small volumes serum bottles or Hungate tubes may be used. The gas phase to liquid ratio should be about 10:1. Use a gas phase containing air, 50% methane and autoclave at 121°C for 15 minutes. When the growth medium is cool the NaHCO3, the Na₂CO₃ and phosphate buffer are added. Liquid cultures should be grown with shaking.

To the sterile medium add from sterile stock solutions:

$NaHCO_3$ (1M) Na_2CO_3 (1M)	50.0 5.0	ml/l ml/l
Phosphate buffer:	20.0	ml/l
KH_2PO_4 $Na_2HPO_4 \times 12 H_2O$ Distilled water	14.0 30.0 1000.0	g g ml

Final pH of the medium: 8.5-9.0

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EDTA	5.00	g
CuCl ₂ x 5 H ₂ O	0.10	g
FeSO ₄ x 7 H ₂ O	2.00	g
ZnSO ₄ x 7 H ₂ O	0.10	g
$NiCl_2 \times 6 H_2O$	0.02	g
CoCl ₂ x 6 H ₂ O	0.20	g
Na_2MoO_4	0.03	g
$MnCl_2 \times 4 H_2O$	0.03	g
H_3BO_3	0.03	g
Distilled water	1000.00	ml