

1181. METHYLOCELLA SILVERSTRIS MEDIUM

MgSO ₄ x 7 H ₂ O	0.200	g
CaCl ₂ x 6 H ₂ O	0.006	g
Fe(III)NH ₄ -EDTA	4.000	mg
NaNO ₃	0.200	g
Trace element solution (see below)	0.500	ml
Phosphate buffer (see below)	5.000	ml
KH ₂ PO ₄	0.272	g
Na ₂ HPO ₄ x 12 H ₂ O	0.717	g
Distilled water	1000.000	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 1:10. Use a gas phase containing air, 20-30% methane and autoclave at 121°C for 15 minutes. When the growth medium is cool the phosphate buffer is added. Liquid cultures should be grown with shaking.

Autoclave at 121°C for 15 min.

Add to the sterile medium from a filter sterilised phosphate buffer:

NaH ₂ PO ₄ x 2 H ₂ O	28.71	g
Na ₂ HPO ₄ x 12 H ₂ O	5.73	g
Distilled water	1000.00	ml

pH 5.8

Final pH of the medium is 5.8.

Trace element solution:

ZnSO ₄ x 7 H ₂ O	10.000	mg
MnCl ₂ x 4 H ₂ O	3.000	mg
H ₃ BO ₃	30.000	mg
CuCl ₂ x 6 H ₂ O	1.000	mg
CaCl ₂ x 2 H ₂ O	20.000	mg
Na ₂ MoO ₄ x 2 H ₂ O	3.000	mg
Distilled water	1000.000	ml