

1341. MIN E - METHYLOVERSATILIS MEDIUM

Mineral Salts Solution MIN E:

MIN E – Base (10x)	100.0	ml
Trace Metals (500x)	2.0	ml
Distilled water	900.0	ml

Add 100 ml of sterile phosphate buffer after autoclaving.

MIN E – Base (10x):

CaCl ₂ x 6 H ₂ O	0.50	g
MgSO ₄ x 7 H ₂ O	1.65	g
(NH ₄) ₂ SO ₄	5.00	g
Distilled water	1000.00	ml

Trace Metals (500x):

EDTA Solution

NaOH	9.00	g
EDTA	50.00	g
ZnSO ₄ x 7 H ₂ O	11.00	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 and NaOH in 800ml of distilled water then add the inorganic salts. Make up to 1000.0 ml with distilled water.

Phosphate buffer (10x):

K ₂ HPO ₄	12.0	g
KH ₂ PO ₄	6.0	g
Distilled water	1000.0	ml

pH 6.8 – 7.0

Autoclave the Mineral Salts Solution MIN E and phosphate buffer separately and combine after cooling. Add 20 ml/l filter sterilized methanol and 1 ml/l filter sterilized vitamin B₁₂ (250 mg/l). The medium may be solidified by adding 15 g/l agar.