

1357. MAB MEDIUM

Mineral Salts Solution:

NaCl	10.000	g
NH ₄ Cl	0.850	g
K ₂ HPO ₄	0.480	g
MgSO ₄ x 7 H ₂ O	0.120	g
CaCl ₂ x 2 H ₂ O	0.061	g
FeSO ₄ x 7 H ₂ O	0.021	g
MnSO ₄ x H ₂ O	0.005	g
CoCl ₂ x 6 H ₂ O	0.001	g
ZnSO ₄ x 7 H ₂ O	0.001	g
Trace element solution (see below)	1.000	ml
Vitamin Solution	10.000	ml
Resazurin	0.001	mg
Na ₂ CO ₃	10.600	g
NaHCO ₃	13.600	g
Yeast Extract	0.050	g
Cellubiose	0.050	g
Cysteine HCl	0.700	g
Distilled Water	1000.000	ml

Trace element solution:

CuSO ₄ x 2 H ₂ O	0.1	g
Nitrilotriacetic acid	15.0	g
AlK(SO ₄) ₂ x 12 H ₂ O	0.1	g
H ₃ BO ₃	0.1	g
Na ₂ MoO ₄ x 2 H ₂ O	0.1	g
Distilled Water	1000.0	ml

Vitamin solution:

Pyridoxine HCl	0.100	mg
Thiamine HCl	0.050	mg
Riboflavin	0.050	mg
Nicotinic acid	0.050	mg
<i>p</i> -Aminobenzoic Acid	0.050	mg
Lipoic Acid	0.050	mg
Biotin	0.020	mg
Folic Acid	0.020	mg
Vitamin B ₁₂	0.005	mg
Distilled Water	1000.000	ml

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Prepare the liquid medium without Na_2CO_3 , NaHCO_3 , yeast extract, cellulose and cysteine HCl. Boil and then cool under N_2 to room temperature. Add Na_2CO_3 and NaHCO_3 . Dispense into suitable vessels for anaerobic growth (serum bottles or Hungate tubes sealed with rubber stoppers) and sterilize by autoclaving. After autoclaving add yeast extract, cellulose and cysteine HCl from sterile stock solutions and 10 ml of the vitamin solution to 1 litre of the sterile Mineral Salts Solution. Final pH 9.8.