1357: MAB MEDIUM

Final pH: 9.8
Final volume: 1000 ml

NaCl	10.000	g
NH_4Cl	0.850	g
K_2HPO_4	0.480	g
$MgSO_4$ x 7 H_2O	0.120	g
$CaCl_2$ x 2 H_2O	0.061	g
$FeSO_4$ x 7 H_2O	0.021	g
$MnSO_4$ x H_2O	5.000	mg
$CoCl_2$ x 6 H_2O	1.000	mg
$ZnSO_4$ x 7 H_2O	1.000	mg
Trace element solution	1.000	ml
Vitamin solution	10.000	ml
Resazurin	1.000	µg
Na_2CO_3	10.600	g
$NaHCO_3$	13.600	g
Cysteine HCl	0.700	g
Distilled water	1000.000	ml

Prepare the liquid medium without Na_2CO_3, $NaHCO_3$, Vitamin solution 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 cysteine HCl from sterile stock solution and 10 ml of the vitamin solution to 1 litre of the sterile main solution. Final pH 9.8.

Trace element solution

$CuSO_4$ x 2 H_2O	0.10	g
Nitrilotriacetic acid	15.00	g
$AlK(SO_4)_2$ x 12 H_2O	0.10	g
H_3BO_3	0.10	g
Na_2MoO_4 x 2 H_2O	0.10	g
Distilled water	1000.00	ml

Vitamin solution

Pyridoxine hydrochloride	0.10	mg
Thiamine HCl	0.05	mg
Riboflavin	0.05	mg

Nicotinic acid	0.05	mg
p-Aminobenzoic acid	0.05	mg
Lipoic acid	0.05	mg
Biotin	0.02	mg
Folic acid	0.02	mg
Vitamin B_{12}	5.00	µg
Distilled water	1000.00	ml