1728. MMB MEDIUM (ATCC 2254)

Peptone	0.10	g
Yeast extract	0.10	g
Glucose	1.00	g
$(NH_4)_2SO_4$	0.20	g
Hutner's salts (see below)	20.00	ml
Vitamin solution (see below)	10.00	ml
Distilled water	970.00	ml

pH 7.0- 7.5

For solid medium, add 15g of agar per liter.
Glucose and vitamin solution should be filter-sterilized separately.

Hutner's salts:

Nitrilotriacetic acid (NTA)	10.000	g
$MgSO_4$ x 7 H_2O	29.700	g
$CaCl_2$ x 2 H_2O	3.335	g
$(NH_4)_6MoO_7O_{24}$ x 4 H_2O	9.250	mg
$FeSO_4$ x 7 H_2O	99.000	mg
"Metals 44"	50.000	ml
Distilled water	950.000	ml

Dissolve the nitrilotriacetic acid, adjust the pH to 7.0 with KOH (about 7.3 g). Dissolve other salts separately, combine and adjust the pH to 6.8 with NaOH or H_2SO_4.

"Metals 44":

Na-EDTA	250.000	mg
$ZnSO_4$ x 7 H_2O	1095.000	mg
$FeSO_4$ x 7 H_2O	500.000	mg
$MnSO_4$ x H_2O	154.000	mg
$CuSO_4$ x 5 H_2O	39.200	mg
$Co(NO_3)_2$ x 6 H_2O	24.800	mg
$Na_2B_4O_7$ x 10 H_2O	17.700	mg
Distilled water	1000.000	ml

Dissolve the EDTA and add a few drops of concentrated H_2SO_4 to retard precipitation of the heavy metal ions.

Vitamin solution:

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine-HCl	10.00	mg
Thiamine-HCl	5.00	mg
Riboflavin	5.00	mg

Nicotinic acid	5.00	mg
D-Ca-pantothenate	5.00	mg
Vitamin B_{12}	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml