

ATCC medium: 1465 Basal thermophile medium

Solution 1:

NH₄Cl0.9 g
MgCl₂ . 6H₂O0.2 g
KH₂PO₄0.75 g
K₂HPO₄1.5 g
Trace Element Solution (see below).....9.0 ml
10% FeSO₄ . 7H₂O0.03 ml
0.2% Resazurin.....1.0 ml
Wolfe's Vitamin Solution (see below).....5.0 ml
Trypticase Peptone (BD 211921).....10.0 g
Distilled water.....850.0 ml

Solution 2:

Yeast extract.....3.0 g
Distilled water.....100.0 ml

Solution 3:

Glucose.....5.0 g
Distilled water.....50.0 ml

Autoclave the above solutions separately at 121C for 45 minutes. Combine solutions under 100% N₂ and dispense aseptically using the same gas phase. At time of inoculation add 10% sterile Na₂S . 9H₂O to a final concentration of 0.1%.

Trace Element Solution:

Nitrilotriacetic acid (Neutralize to pH 6.5 with KOH).....12.5 g
FeCl₃ . 4H₂O0.2 g
MnCl₂ . 4H₂O0.1 g
CoCl₂ . 6H₂O0.017 g
CaCl₂ . 2H₂O0.1 g
ZnCl₂0.1 g
CuCl₂0.02 g
H₃BO₃0.01 g
Na₂MoO₄ . 2H₂O.....0.01 g
NaCl.....1.0 g
Na₂SeO₃0.02 g
Distilled water.....1.0 L

Wolfe's Vitamin Solution:

Available from ATCC as a sterile ready-to-use liquid (Vitamin Supplement, catalog no. MD-VS).

Biotin.....	2.0 mg
Folic acid.....	2.0 mg
Pyridoxine hydrochloride....	10.0 mg
Thiamine . HCl.....	5.0 mg
Riboflavin.....	5.0 mg
Nicotinic acid.....	5.0 mg
Calcium D-(+)-pantothenate...	5.0 mg
Vitamin B12.....	0.1 mg
p-Aminobenzoic acid.....	5.0 mg
Thioctic acid.....	5.0 mg
Distilled water.....	1.0 L