

ATCC medium: 2197 *Filobacillus* medium

Peptone.....0.75 g
Yeast extract.....0.75 g
Glucose.....0.75 g
NaCl.....100.0 g
Modified Hutner's Basal Salts (see below).....20.0 ml
Wolfe's Vitamin Solution (see below).....20.0 ml
0.1 M Tris/HCl buffer (pH 7.5).....50.0 ml
Artificial Seawater (see below).....250.0, ml
Distilled water.....660.0 ml

For solid medium, use 18 grams of agar and adjust pH of Tris/HCl buffer to 8.5.

Autoclave at 121C for 15 minutes.

For artificial seawater, use "Instant Ocean" (32 g/L) or the Lyman and Fleming solution below.

Modified Hutner's Basal Salts:

Nitrilotriacetic acid.....10.0 g
MgSO₄ . 7H₂O29.7 g
CaCl₂ . 2H₂O3.34 g
Ammonium molybdate.....9.25 mg
FeSO₄ . 7H₂O99.0 mg
Metals "44" (see below).....50.0 ml
Distilled water to.....1.0 L

Dissolve and neutralize the nitrilotriacetic acid with KOH (7.3 g); add the other ingredients and adjust the pH to 6.6 - 6.8 before bringing the volume to 1.0 L with distilled water.

Metals "44":

EDTA.....0.25 g
ZnSO₄ . 7H₂O1.1 g
FeSO₄ . 7H₂O0.5 g
MnSO₄ . 7H₂O0.154 g
CuSO₄ . 5H₂O0.04 g
Co(NO₃)₂ . 6H₂O.....0.025 g
Na₂B₄O₇ . 10H₂O0.018 g
Distilled water.....100.0 ml

Initially add a few drops of H₂SO₄ to the distilled water to retard precipitation.

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

Artificial Seawater (Lyman and Fleming, 1940):

NaCl.....	23.47 g
MgCl ₂	4.98 g
Na ₂ SO ₄	3.92 g
CaCl ₂	1.10 g
KCl.....	0.66 g
NaHCO ₃	0.19 g
KBr.....	0.10 g
H ₃ BO ₃	0.026 g
SrCl ₂	0.024 g
NaF.....	0.003 g
Distilled water.....	1.0 L