

ATCC medium: 1657 M-14 medium

Yeast Extract (BD 212750).....1.0 g
Glucose.....1.0 g
Modified Hutner's Basal Salts (see below).....20.0 ml
Trizma, pH 7.5 (Sigma T-4128).....0.753 g
Artificial seawater.....250.0 ml
Distilled water.....730.0 ml

Autoclave at 121C for 15 minutes.

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.