

ATCC medium: 2644 Telmatospirillum Medium

Na pyruvate.....3.00 g
K₂HPO₄0.25 g
KH₂PO₄1.00 g
(NH₄)₂SO₄.....1.00 g
CaCl₂ . 2H₂O0.10 g
MgSO₄.....0.40 g
Mineral solution (see below).....10.00 ml
Distilled water.....1.00 L

Prepare the medium anaerobically under a steady stream of 80% N₂ and 20% CO₂. Adjust the pH to 5.5-6.5 with 1M H₃PO₄. Autoclave at 121°C for 15 minutes.

Mineral Solution:

Nitrilotriacetic acid1.500 g
FeCl.....0.100 g
KI.....0.020 g
CoCl . 6H₂O.....0.020 g
MnCl₂ . 4H₂O0.080 g
ZnSO₄ . 7H₂O0.080 g
H₃BO₃0.010 g
Na₂MoO₄ . 2H₂O.....0.010 g
CuCl₂.....0.010 g
NiCl₂ . 6H₂O0.020 g
Distilled water.....1.000 L

Add nitrilotriacetic acid to approximately 500 ml of water and adjust to pH 6.5 with KOH to dissolve the compound. Bring volume to 1.0 L with remaining water and add remaining compounds one at a time.