

ATCC medium: 1255 *Thiomicrospira denitrificans* medium

Solution A:

KH₂PO₄2.0 g
KNO₃2.0 g
NH₄Cl1.0 g
MgSO₄ . 7H₂O0.8 g
Trace Element Solution SL-4 (see below).....2.0 ml
Agar (if needed).....15.0 g
Distilled water.....940.0 ml

Adjust pH to 7.0 with NaOH.

Solution B:

Na₂S₂O₃ . 5H₂O5.0 g
Distilled water.....40.0 ml

Solution C:

NaHCO₃1.0 g
Distilled water.....20.0 ml

Solution D:

FeSO₄ . 7H₂O2.0 mg
0.1 N H₂SO₄1.0 ml

Autoclave Solutions A, B and D separately at 121C for 15 minutes. Sterilize Solution C by membrane filtration or by autoclaving in a tightly closed vessel under an atmosphere of CO₂. After sterilization combine the four solutions and distribute as required under nitrogen atmosphere.

Trace Element Solution SL-4:

EDTA.....0.5 g
FeSO₄ . 7H₂O0.2 g
Trace Elements Solution SL-6 (see below).....100.0 ml
Distilled water.....900.0 ml

Trace Elements Solution SL-6:

ZnSO₄ . 7H₂O0.10 g
MnCl₂ . 4H₂O0.03 g
H₃BO₃0.3 g
CoCl₂ . 6H₂O0.2 g
CuCl₂ . 2H₂O0.01 g
NiCl₂ . 6H₂O0.02 g
Na₂MoO₄ . 2H₂O.....0.03 g
Distilled water.....1.0 L

Adjust final pH of Trace Elements Solution SL-6 to 3.4.