

ATCC medium: 1555 *Desulfobulbus* medium

KH₂PO₄0.3 g
NaCl.....0.6 g
MgSO₄ . 7H₂O0.12 g
CaCl₂ . 2H₂O0.08 g
(NH₄)₂SO₄.....1.24 g
Na₂SO₄1.5 g
Sodium propionate.....1.85 g
Trace minerals (see below).....10.0 ml
Wolfe's Vitamin Solution (see below)....10.0 ml
L-Cysteine . HCl.....0.5 g
Distilled water to.....1.0 L

Boil basal medium and cool under a stream of 85% N₂, 15% CO₂. Add cysteine and adjust pH to 7.2 with KHCO₃. Dispense medium anaerobically using the same gas phase and autoclave at 121C for 15 minutes. Adjust final pH to 7.0.

Trace Minerals:

Nitrilotriacetic acid.....12.8 g
FeSO₄ . 7H₂O0.3 g
MnCl₂ . 4H₂O0.1 g
CoCl₂ . 2H₂O0.1 g
ZnCl₂0.1 g
CuCl₂0.02 g
H₃BO₃0.01 g
Sodium molybdate.....0.01 g
Na₂SeO₃1.7 mg
NiSO₄ . 6H₂O2.6 mg
Distilled water to.....1.0 L

Dissolve the nitrilotriacetic acid in 500 ml distilled water by adjusting the pH to 6.5 with KOH. Add remaining minerals and bring volume to 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

