

ATCC medium: 2225 *Desulfovibrio magneticus* medium

KH₂PO₄0.2 g
NH₄Cl0.06 g
L-Cysteine . HCl.....0.05 g
Ferric Quinate Solution (see below).....2.0 ml
Wolfe's Vitamin Solution (see below).....4.0 ml
Wolfe's Mineral Solution (see below).....2.0 ml
Fumarate (sulfate).....0.58 g (0.30 g)
Pyruvate (lactate).....0.44 g (0.45 g)
Distilled water.....1.0 L

If either of the ingredients in parentheses is used as the electron donor or electron acceptor, use the other amount given in parentheses on the respective line. Adjust pH to 7.0.

Ferric Quinate Solution:

FeCl₃0.27 g
Quinate.....0.19 g
Distilled water.....100.0 ml

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

Wolfe's Mineral Solution:

Available from ATCC as a sterile ready-to-use liquid (Trace Mineral Supplement, catalog no. MD-TMS.)

Nitrilotriacetic acid.....	1.5 g
MgSO ₄ . 7H ₂ O	3.0 g
MnSO ₄ . H ₂ O	0.5 g
NaCl.....	1.0 g
FeSO ₄ . 7H ₂ O	0.1 g
CoCl ₂ . 6H ₂ O	0.1 g
CaCl ₂	0.1 g
ZnSO ₄ . 7H ₂ O	0.1 g
CuSO ₄ . 5H ₂ O	0.01 g
AlK(SO ₄) ₂ . 12H ₂ O.....	0.01 g
H ₃ BO ₃	0.01 g
Na ₂ MoO ₄ . 2H ₂ O.....	0.01 g
Distilled water.....	1.0 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.