

ATCC medium:2129 Modified *Geobacter* medium

NH ₄ Cl	1.5 g
NaH ₂ PO ₄	0.6 g
KCl	0.1 g
NaHCO ₃	2.5 g
Sodium acetate	0.82 g
Wolfe's Vitamin Solution (see below)	10.0 ml
Wolfe's Mineral Solution (see below)	10.0 ml
Ferric Pyrophosphate Solution (see below)	50.0 ml
Distilled water	930.0 ml

Boil under 80% N₂, 20% CO₂ and autoclave at 121C for 15 minutes. Allow to cool under the same gas. Add filter-sterilized Ferric Pyrophosphate Solution to the basal medium. Final pH should be 6.8 +/- 0.2.

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.