

ATCC medium: 2228 *Thiomicrospira pelophila* medium

NaCl.....	25.0 g
(NH ₄) ₂ SO ₄	1.0 g
MgSO ₄ . 7H ₂ O	1.50 g
CaCl ₂ . 2H ₂ O	0.42 g
Wolfe's Mineral Solution (see below).....	1.0 ml
Bromothymol blue.....	4.0 mg
K ₂ HPO ₄ *	0.50 g
Na ₂ S ₂ O ₃ . 5H ₂ O*	5.0 g
Vitamin B ₁₂	15.0 mcg
Distilled water.....	1.0 L

*Autoclave the K₂HPO₄ and Na₂SO₃ separately, each in 10% of the final volume. Filter-sterilize the vitamin B₁₂. Adjust the completed medium to pH 7.2 with sterile 0.4% (w/v) Na₂CO₃ solution. Alternatively, use "aged sea water" (see medium 246), supplemented by the indicated amounts of (NH₄)₂SO₄, bromothymol blue, K₂HPO₄, sodium thiosulfate, and vitamin B₁₂.

Wolfe's Mineral Solution:

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

Nitriilotriacetic 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 nitriilotriacetic acid to approximately 500 ml of water and adjust pH to 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.