

ATCC medium: 1915 *Pyrococcus* medium (DSM medium 377)

KH ₂ PO ₄	0.5 g
NiCl ₂ . 6H ₂ O	2.0 mg
Wolfe's Mineral Solution (see below)	10.0 ml
Yeast Extract (BD 212750).....	1.0 g
Peptone, Bacto (BD 211677)	5.0 g
Resazurin.....	1.0 mg
Sulfur, powdered.....	30.0 g
Na ₂ S . 9H ₂ O	0.5 g
Seawater.....	1.0 L

Add approximately 0.18 g powdered sulfur per test tube. Dissolve remaining ingredients, except sodium sulfide, in seawater. Adjust solution to pH 6.4 +/- 0.1. Under 100% N₂ gas, boil, cool and dispense 6.0 ml aliquots anaerobically into tubes containing the powdered sulfur. Autoclave medium at 100C for 30 minutes on 3 consecutive days. Prior to inoculation, reduce the medium with a sterile neutral solution of sodium sulfide to 0.5 g/L final concentration. Final pH of complete medium is 6.5.

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.