

ATCC medium: 1977 *Thermotoga elfii* medium

NH ₄ Cl	1.0 g
K ₂ HPO ₄	0.3 g
KH ₂ PO ₄	0.3 g
MgCl ₂ . 6H ₂ O	0.2 g
CaCl ₂ . 2H ₂ O	0.1 g
NaCl.....	10.0 g
KCl.....	0.1 g
L-Cysteine . HCl.....	0.5 g
Sodium acetate.....	0.5 g
Yeast extract.....	2.0 g
Trypticase Peptone (BD 211921).....	2.0 g
Wolfe's Mineral Solution (see below)....	10.0 ml
Resazurin.....	1.0 mg
2% Na ₂ S . 9H ₂ O	20.0 ml
10% Na ₂ CO ₃	20.0 ml
Distilled water.....	1.0 L

Add all components except sodium sulfide and sodium carbonate to 1.0 L distilled water and adjust to pH 8.0 with 10 M KOH. Bring to boiling under 100% N₂ and cool to room temperature under same gas phase. Dispense medium anaerobically in 5 ml aliquots in Hungate tubes and seal under an atmosphere of 80% N₂, 20% CO₂. Autoclave at 110C for 45 minutes. Prior to inoculation, add to each tube 0.1 ml 2% sodium sulfide solution and 0.1 ml 10% sodium carbonate solution (each solution previously autoclaved under 100% N₂).

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.