

**ATCC Medium: MD-2374 *D. solfataricum* Medium**

NaHCO <sub>3</sub> (sterilize separately).....	4.0 g
Sodium Lactate.....	3.50 g
NaSO <sub>4</sub> .....	2.80 g
MgCl <sub>2</sub> x 6H <sub>2</sub> O .....	1.20 g
KCl.....	0.50 g
NH <sub>4</sub> Cl.....	0.30 g
KH <sub>2</sub> PO <sub>4</sub> .....	0.20 g
CaCl <sub>2</sub> .....	0.15 g
Na <sub>2</sub> S x 9H <sub>2</sub> O(sterilize separately).....	0.30 g
DI Water.....	979 mL

Autoclave at 121°C for 15 minutes. Cool sterilized medium under 100% N<sub>2</sub> add the following solutions aseptically:

Wolfe's Vitamin Solution (see below).....	10 mL
Wolfe's Mineral Solution (see below).....	10 mL
Selenite/Tungstate Solution (see below).....	1.0 mL

While stirring under gas mixture of 100% N<sub>2</sub> dispense medium into sterile test tubes and seal anaerobically.

**Wolfe's Vitamin Solution (filter-sterilized):**

Biotin.....	2.0 mg
Folic Acid.....	2.0 mg
Pyridoxine x HCl.....	10.0 mg
Thiamine x HCl.....	5.0 mg
Riboflavin.....	5.0 mg
Nicotinic acid.....	5.0 mg
Calcium pantothenate.....	5.0 mg
Vitamin B <sub>12</sub> .....	0.1 mg
p-Aminobenzoic Acid.....	5.0 mg
Thioctic Acid.....	5.0 mg
DI Water.....	1000 mL

**Wolfe's Mineral Solution (filter-sterilized):**

Nitrilotriacetic acid.....	1.5 g
MgSO <sub>4</sub> x 7H <sub>2</sub> O.....	3.0 g
MnSO <sub>4</sub> x H <sub>2</sub> O .....	0.5 g
NaCl.....	1.0 g
FeSO <sub>4</sub> x 7H <sub>2</sub> O .....	0.1 g
CaCl <sub>2</sub> .....	0.1 g
CoCl <sub>2</sub> x 6H <sub>2</sub> O .....	0.1 g
ZnSO <sub>4</sub> x 7H <sub>2</sub> O.....	0.1 g
CuSO <sub>4</sub> x 5H <sub>2</sub> O .....	0.01 g
AlK (SO <sub>4</sub> ) <sub>2</sub> x 12H <sub>2</sub> O .....	0.01 g
H <sub>3</sub> BO <sub>3</sub> .....	0.01 g
Na <sub>2</sub> MoO <sub>4</sub> x 2H <sub>2</sub> O .....	0.01 g
DI Water.....	1000 mL

**Selenite-tungstate Solution (filter-sterilized):**

NaOH.....	0.5 g
Na <sub>2</sub> SeO <sub>3</sub> x 5H <sub>2</sub> O.....	3.0 mg
Na <sub>2</sub> WO <sub>4</sub> x 2H <sub>2</sub> O.....	4.0 mg
DI Water.....	1000 mL