

**ATCC medium: 1995 *Thiobacillus caldus* medium**

*Solution A:*

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> .....	3.0 g
Na <sub>2</sub> SO <sub>4</sub> . 10H <sub>2</sub> O.....	3.2 g
KCl.....	0.1 g
K <sub>2</sub> HPO <sub>4</sub> .....	50.0 mg
MgSO <sub>4</sub> . 7H <sub>2</sub> O .....	0.5 g
Distilled water.....	460.0 ml

Adjust solution A to pH 1.75 with H<sub>2</sub>SO<sub>4</sub>. Autoclave at 121C for 15 minutes. Maintain above 60C (see below).

*Solution B:*

Ca(NO <sub>3</sub> ) <sub>2</sub> . 4H <sub>2</sub> O.....	10.0 mg
FeCl <sub>3</sub> . 6H <sub>2</sub> O .....	11.0 mg
CuSO <sub>4</sub> . 5H <sub>2</sub> O .....	0.5 mg
H <sub>3</sub> BO <sub>3</sub> .....	2.0 mg
MnSO <sub>4</sub> . H <sub>2</sub> O .....	2.0 mg
Na <sub>2</sub> MoO <sub>4</sub> . 2H <sub>2</sub> O.....	0.8 mg
CoCl <sub>2</sub> . 6H <sub>2</sub> O .....	0.6 mg
ZnSO <sub>4</sub> . 7H <sub>2</sub> O .....	0.9 mg
Distilled water.....	10.0 ml

Filter-sterilize solution B.

*Solution C:*

Glucose.....	0.45 g
Distilled water.....	10.0 ml

Filter-sterilize solution C.

*Solution D:*

Sodium tetrathionate.....	0.77 g
Distilled water.....	20.0 ml

Filter-sterilize solution D.

*Solution E:*

Phytigel (Sigma P-8169).....15.0 g  
Distilled water.....500.0 ml

Autoclave solution E at 121C for 15 minutes. Maintain above 60C (see below).

Maintain solutions A and E above 60C when removed from autoclave to retard rapid gelling of Phytigel. Aseptically combine solutions A through E and dispense into appropriate vessels. Complete medium will have a final pH of 2.5.

For liquid medium, omit solution E and prepare solution A in 960 ml water. Adjust solution A to pH 2.5.

For chemolithotrophic growth, omit glucose.