

**ATCC medium: 1255 *Thiomicrospira denitrificans* medium**

*Solution A:*

KH<sub>2</sub>PO<sub>4</sub> .....2.0 g  
KNO<sub>3</sub> .....2.0 g  
NH<sub>4</sub>Cl .....1.0 g  
MgSO<sub>4</sub> . 7H<sub>2</sub>O .....0.8 g  
Trace Element Solution SL-4 (see below).....2.0 ml  
Agar (if needed).....15.0 g  
Distilled water.....940.0 ml

Adjust pH to 7.0 with NaOH.

*Solution B:*

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> . 5H<sub>2</sub>O .....5.0 g  
Distilled water.....40.0 ml

*Solution C:*

NaHCO<sub>3</sub> .....1.0 g  
Distilled water.....20.0 ml

*Solution D:*

FeSO<sub>4</sub> . 7H<sub>2</sub>O .....2.0 mg  
0.1 N H<sub>2</sub>SO<sub>4</sub> .....1.0 ml

Autoclave Solutions A, B and D separately at 121C for 15 minutes. Sterilize Solution C by membrane filtration or by autoclaving in a tightly closed vessel under an atmosphere of CO<sub>2</sub>. After sterilization combine the four solutions and distribute as required under nitrogen atmosphere.

*Trace Element Solution SL-4:*

EDTA.....0.5 g  
FeSO<sub>4</sub> . 7H<sub>2</sub>O .....0.2 g  
Trace Elements Solution SL-6 (see below).....100.0 ml  
Distilled water.....900.0 ml

*Trace Elements Solution SL-6:*

ZnSO<sub>4</sub> . 7H<sub>2</sub>O .....0.10 g  
MnCl<sub>2</sub> . 4H<sub>2</sub>O .....0.03 g  
H<sub>3</sub>BO<sub>3</sub> .....0.3 g  
CoCl<sub>2</sub> . 6H<sub>2</sub>O .....0.2 g  
CuCl<sub>2</sub> . 2H<sub>2</sub>O .....0.01 g  
NiCl<sub>2</sub> . 6H<sub>2</sub>O .....0.02 g  
Na<sub>2</sub>MoO<sub>4</sub> . 2H<sub>2</sub>O.....0.03 g  
Distilled water.....1.0 L

Adjust final pH of Trace Elements Solution SL-6 to 3.4.