

**ATCC medium: 2298 Medium for *Sterolibacterium denitrificans***

*Solution A:*

KH <sub>2</sub> PO <sub>4</sub> .....	0.4 g
K <sub>2</sub> HPO <sub>4</sub> .....	1.2 g
NH <sub>4</sub> Cl .....	0.3 g
NaCl.....	0.5 g
KNO <sub>3</sub> .....	1.0 g
Cholesterol.....	0.386 g
Wolfe's Mineral Solution (see below) .....	1.0 ml
Distilled deionized water.....	1.0 L

*Solution B:*

MgCl <sub>2</sub> . 6H <sub>2</sub> O .....	11.6 g
CaCl <sub>2</sub> . 2H <sub>2</sub> O .....	3.7 g
Distilled deionized water.....	1.0 L

*Solution C:*

*Wolfe's Mineral Solution:*

Available from ATCC as a sterile ready-to-use liquid (Trace Mineral Supplement, catalog no. MD-TMS)

Nitrolotriacetic acid.....	1.5 g
MgSO <sub>4</sub> . 7H <sub>2</sub> O .....	3.0 g
MnSO <sub>4</sub> . H <sub>2</sub> O .....	0.5 g
NaCl.....	1.0 g
FeSO <sub>4</sub> . 7H <sub>2</sub> O .....	0.1 g
CoCl <sub>2</sub> . 6H <sub>2</sub> O .....	0.1 g
CaCl <sub>2</sub> .....	0.1 g
ZnSO <sub>4</sub> . 7H <sub>2</sub> O .....	0.1 g
CuSO <sub>4</sub> . 5H <sub>2</sub> O .....	0.01 g
AlK(SO <sub>4</sub> ) <sub>2</sub> . 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> . 2H <sub>2</sub> O.....	0.01 g
Distilled water.....	1.0 L

Add nitrolotriacetic 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.

*Solution D:*

Na <sub>2</sub> S . 9H <sub>2</sub> O .....	25.0 g
Distilled deionized water.....	1.0 L

Autoclave solution at 121C for 15 minutes.

Directions for preparations of complete medium: Prepare Solution A. Adjust pH to 6.8-7.0. Bring to a boil and cool under 70% N<sub>2</sub>, 30% CO<sub>2</sub>. Add 1.68 grams of NaHCO<sub>3</sub>, 20.0 ml of Solution B, and 1.0 ml of Solution C. Autoclave medium at 121C for 15 minutes. Cool under same gas, add 1.0 ml of sterile Solution D. Check pH and adjust to 6.8-7.0 if necessary. Dispense aseptically and anaerobically into sterile anaerobic tubes with rubber stoppers.

Note: Different gas combinations may be used if 70:30 is not available. However, special care must be used to adjust the pH since the CO<sub>2</sub> and NaHCO<sub>3</sub> form a buffer system that affects the pH.