

**ATCC medium: 2006 *Desulfobacterium anilini* medium (DSM 193 with phenol)**

*Solution A:*

Na<sub>2</sub>SO<sub>4</sub> .....3.0 g  
KH<sub>2</sub>PO<sub>4</sub> .....0.2 g  
NH<sub>4</sub>Cl .....0.3 g  
NaCl .....7.0 g  
MgCl<sub>2</sub> . 6H<sub>2</sub>O .....1.3 g  
KCl .....0.5 g  
CaCl<sub>2</sub> . 2H<sub>2</sub>O .....0.15 g  
Resazurin .....1.0 mg  
Distilled water .....870.0 ml

Heat to boiling and cool to room temperature under 80% N<sub>2</sub>, 20% CO<sub>2</sub> until pH drops below 6. Autoclave under the same gas phase at 121C for 15 minutes.

*Solution B:*

Trace Elements Solution SL-10 (see below) .....1.0 ml

Autoclave under N<sub>2</sub> at 121C for 15 minutes.

*Solution C:*

NaHCO<sub>3</sub> .....5.0 g  
Distilled water .....100.0 ml

Filter-sterilize and flush with 80% N<sub>2</sub>, 20% CO<sub>2</sub>.

*Solution D:*

Phenol .....94.0 mg  
Distilled water .....10.0 ml

Freshly prepare, filter-sterilize, and equilibrate under N<sub>2</sub>.

*Solution E:*

Wolfe's Vitamin Solution (see below) .....10.0 ml

Autoclave under N<sub>2</sub> at 121C for 15 minutes.

*Solution F:*

NaOH .....0.5 g  
Na<sub>2</sub>SeO<sub>3</sub> . 5H<sub>2</sub>O .....3.0 mg  
Na<sub>2</sub>WO<sub>4</sub> . 2H<sub>2</sub>O .....4.0 mg  
Distilled water .....1.0 L

Autoclave under N<sub>2</sub> at 121C for 15 minutes. Use 1.0 ml/L medium.

*Solution G:*

Na<sub>2</sub>S . 9H<sub>2</sub>O .....0.4 g  
Distilled water.....10.0 ml

Autoclave under N<sub>2</sub> at 121C for 15 minutes.

Aseptically add solutions B through G to sterile, cooled solution A in the sequence indicated. Dispense completed medium anaerobically under a gas phase of 80% N<sub>2</sub>, 20% CO<sub>2</sub> into appropriate vessels. Final pH 7.1-7.4.

*Trace Elements Solution SL-10:*

HCl (25%).....10.0 ml  
FeCl<sub>2</sub> . 4H<sub>2</sub>O .....1.5 g  
ZnCl<sub>2</sub> .....70.0 mg  
MnCl<sub>2</sub> . 4H<sub>2</sub>O .....100.0 mg  
H<sub>3</sub>BO<sub>3</sub> .....6.0 mg  
CoCl<sub>2</sub> . 6H<sub>2</sub>O .....190.0 mg  
CuCl<sub>2</sub> . 2H<sub>2</sub>O .....2.0 mg  
NiCl<sub>2</sub> . 6H<sub>2</sub>O .....24.0 mg  
Na<sub>2</sub>MoO<sub>4</sub> . 2H<sub>2</sub>O.....36.0 mg  
Distilled water.....990.0 ml

Dissolve FeCl<sub>2</sub> in the HCl, dilute with water, add and dissolve the other salts; adjust pH to 6.0 with NaOH, and fill to 1.0 L with distilled water.

*Wolfe's Vitamin Solution:*

Available from ATCC as a sterile ready-to-use liquid (Vitamin Supplement, catalog no. MD-VS).

Biotin.....2.0 mg  
Folic acid.....2.0 mg  
Pyridoxine hydrochloride.....10.0 mg  
Thiamine . HCl.....5.0 mg  
Riboflavin.....5.0 mg  
Nicotinic acid.....5.0 mg  
Calcium D-(+)-pantothenate.....5.0 mg  
Vitamin B12.....0.1 mg  
p-Aminobenzoic acid.....5.0 mg  
Thioctic acid.....5.0 mg  
Distilled water.....1.0 L