

**ATCC medium: 1409 Modified Imhoff's medium**

NaCl.....30.0 g  
SLA Trace Elements (see below).....1.0 ml  
VA Vitamins (see below).....1.0 ml  
KH<sub>2</sub>PO<sub>4</sub> .....1.0 g  
MgCl<sub>2</sub> . 6H<sub>2</sub>O .....0.5 g  
CaCl<sub>2</sub> . 2H<sub>2</sub>O .....0.1 g  
NH<sub>4</sub>Cl .....1.0 g  
NaHCO<sub>3</sub> .....3.0 g  
Na<sub>2</sub>SO<sub>4</sub> .....0.7 g  
Sodium acetate.....1.0 g  
Sodium ascorbate.....0.5 g  
Yeast extract.....0.1 g  
Sodium sulfide\*.....156.0 mg  
Distilled water.....1.0 L

Adjust medium for final pH 6.9-7.0.

\*Sterilize sodium sulfide separately and add aseptically to sterile medium.

*SLA Trace Elements:*

CoCl<sub>2</sub> . 6H<sub>2</sub>O .....250.0 mg  
NiCl<sub>2</sub> . 6H<sub>2</sub>O .....10.0 mg  
CuCl<sub>2</sub> . 2H<sub>2</sub>O .....10.0 mg  
MnCl<sub>2</sub> . 4H<sub>2</sub>O .....70.0 mg  
ZnCl<sub>2</sub> .....100.0 mg  
H<sub>3</sub>BO<sub>3</sub> .....500.0 mg  
Na<sub>2</sub>MoO<sub>4</sub> . 2H<sub>2</sub>O.....30.0 mg  
Na<sub>2</sub>SeO<sub>3</sub> . 5H<sub>2</sub>O.....10.0 mg  
FeCl<sub>2</sub> . 4H<sub>2</sub>O .....1.8 g  
Distilled water.....1.0 L

Adjust trace element solution to pH 2-3.

*VA Vitamins:*

Biotin.....50.0 mg  
Nicotinamide.....175.0 mg  
Thiamine . HCl.....150.0 mg  
p-Aminobenzoic acid.....100.0 mg  
Pyridoxine . HCl.....50.0 mg  
Calcium D-(+)-pantothenate.....50.0 mg  
Cyanocobalamin.....25.0 mg  
Distilled water.....500.0 ml