

**ATCC medium: 2322 Modified *Thermus* medium**

Peptone.....3.0 g  
Yeast extract.....1.0 g  
Glutamic acid (monosodium).....1.0 g  
10X Castenholz Salts Solution (see below)....100.0 ml  
Agar (if needed).....20-25 g  
Distilled deionized water.....900.0 ml

Adjust pH to 7.8 with NaOH. Autoclave at 121C for 20 minutes.

*Castenholz Basal Salts Solution (10X concentrate):*

Nitrilotriacetic acid.....1.0 g  
CaSO<sub>4</sub> . 2H<sub>2</sub>O .....0.6 g  
MgSO<sub>4</sub> . 7H<sub>2</sub>O .....1.0 g  
NaCl.....0.08 g  
KNO<sub>3</sub>.....1.03 g  
NaNO<sub>3</sub>.....6.89 g  
Na<sub>2</sub>HPO<sub>4</sub> .....1.11 g  
FeCl<sub>3</sub> Solution (0.28 g/L) .....10.0 ml  
Nitch's Trace Elements (see below).....10.0 ml  
Distilled deionized water.....980.0 ml

Adjust pH to 8.2 with 5 N NaOH.

*Nitch's Trace Elements (100X concentrate):*

H<sub>2</sub>SO<sub>4</sub> .....0.5 ml  
MnSO<sub>4</sub> . H<sub>2</sub>O .....2.2 g  
ZnSO<sub>4</sub> . 7H<sub>2</sub>O .....0.5 g  
H<sub>3</sub>BO<sub>3</sub> .....0.5 g  
CuSO<sub>4</sub>.....0.016 g  
Na<sub>2</sub>MoO<sub>4</sub> . 2H<sub>2</sub>O.....0.025 g  
CoCl<sub>2</sub> . 6H<sub>2</sub>O .....0.046 g  
Distilled deionized water.....1.0 L