

**ATCC medium: 1339 R2 YE medium**

Sucrose.....103.0 g  
K<sub>2</sub>SO<sub>4</sub> .....0.25 g  
MgCl<sub>2</sub> . 6H<sub>2</sub>O .....10.12 g  
D-Glucose.....10.0 g  
Casamino Acids (BD 223050).....0.1 g  
Distilled water to.....800.0 ml

Autoclave. Add aseptically:

Trace Element Solution (see below).....2.0 ml  
KH<sub>2</sub>PO<sub>4</sub> (0.5%) .....10.0 ml  
CaCl<sub>2</sub> . 2H<sub>2</sub>O (3.68%) .....80.2 ml  
L-Proline (20%).....15.0 ml  
TES buffer (0.25 M, pH 7.2 = 5.73%)....100.0 ml  
1 N NaOH.....5.0 ml  
10% yeast extract.....50.0 ml  
Thiostrepton.....50.0 mg

*Trace Element Solution:*

ZnCl<sub>2</sub> .....40.0 mg  
FeCl<sub>3</sub> . 6H<sub>2</sub>O .....200.0 mg  
CuCl<sub>2</sub> . 2H<sub>2</sub>O .....10.0 mg  
MnCl<sub>2</sub> . 4H<sub>2</sub>O .....10.0 mg  
Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> . 10H<sub>2</sub>O .....10.0 mg  
(NH<sub>4</sub>)<sub>6</sub>MoO<sub>7</sub>O<sub>24</sub> . 4H<sub>2</sub>O.....10.0 mg  
Distilled water.....1.0 L