**Terrific Broth**  
(Tartof and Hobbs 1987)

Per liter:

To 900 ml of deionized H$_2$O, add:

- bacto-tryptone 12 g
- bacto-yeast extract 24 g
- glycerol 4 ml

Shake until the solutes have dissolved and sterilize by autoclaving for 20 minutes at 15 lb/sq. in. on liquid cycle.

Allow the solution to cool to 60°C or less, and then add 100 ml of a sterile solution of 0.17 M KH$_2$PO$_4$, 0.72 M K$_2$HPO$_4$. (This solution is made by dissolving 2.31 g of KH$_2$PO$_4$ and 12.54 g of K$_2$HPO$_4$ in 90 ml of deionized H$_2$O. After the salts have dissolved, adjust the volume of the solution to 100 ml with deionized H$_2$O and sterilize by autoclaving for 20 minutes at 15 lb/sq. in. on liquid cycle.)

**SOB Medium**

Per liter:

To 950 ml of deionized H$_2$O, add:

- bacto-tryptone 20 g
- bacto-yeast extract 5 g
- NaCl 0.5 g

Shake until the solutes have dissolved. Add 10 ml of a 250 mM solution of KCl. (This solution is made by dissolving 1.86 g of KCl in 100 ml of deionized H$_2$O.) Adjust the pH to 7.0 with 5 N NaOH (~0.2 ml). Adjust the volume of the solution to 1 liter with deionized H$_2$O. Sterilize by autoclaving for 20 minutes at 15 lb/sq. in. on liquid cycle.

Just before use, add 5 ml of a sterile solution of 2 M MgCl$_2$. (This solution is made by dissolving 19 g of MgCl$_2$ in 90 ml of deionized H$_2$O. Adjust the volume of the solution to 100 ml with deionized H$_2$O and sterilize by autoclaving for 20 minutes at 15 lb/sq. in. on liquid cycle.)

**SOC Medium**

SOC medium is identical to SOB medium, except that it contains 20 mM glucose. After the SOB medium has been autoclaved, allow it to cool to 60°C or less and then add 20 ml of a sterile 1 M solution of glucose. (This solution is made by dissolving 18 g of glucose in 90 ml of deionized H$_2$O. After the sugar has dissolved, adjust the volume of the solution to 100 ml with deionized H$_2$O and sterilize by filtration through a 0.22-micron filter.)