SOC Preparation (1 L):

Tryptone - 50 g - 5 g Yeast Extract NaCl - 0.5 g

KCI - 10 mL (250 mM solution)

- 5 mL (2 M MgCl₂) MgCl₂ - 3.603 g (20 mM) Glucose MilliQ water to make up the volume to 1 L.

Adjust the pH to 7.0 using NaOH.

SOB Preparation (500 mL):

 NaCl - 0.2922 g (10 mM) (Stock: 5 mL, 1 M)

 Tryptone - 10 g (2%) Yeast Extract - 2.5 g (0.5%)

- 0.0932 g (2.5 mM) (1.25 mL of 1 M stock) KCI

• MgSO₄.7H₂O MgCl₂.6H₂O - 5 mL of 2 M MgCl₂

- 2.4648 g of 5 mL 1M stock

Adjust the pH to 6.7 - 7.0 by adding NaOH.

TE preparation (1x, 200mL):

- 10 mM (0.24 g) Tris base - 0.1 mM (0.007 g) EDTA

Adjust the pH to 8.0 by adding 1N HCI.

TAE Preparation (50x, 1Lit):

• Tris-base - 242 g EDTA - 100 mL • Glacial Acetic Acid - 57.1 mL

• Water to make up the volume to 1 L.

<u>Transformation buffer Preparation</u> (100 mL):

PIPES - 0.3024 g (10 mM)
CaCl₂ - 0.2130 g (15 mM)
KCl - 1.864 g (250 mM)

• MnCl₂.4H₂O - 1.0885 (55 mM, added after the pH is set to 6.7)

Adjust the pH to 6.7 using diluted HCl. Mix by stirring using a magnetic stirrer for 45 mins. Store it at 4°C and ice chill before using.

LB Media Preparation

Luria Bertani broth - 20 gMilliQ Water - 1 L