DH5α Mix & Go Cell Transformation

Introduction

This protocol transforms plasmid DNA into DH5α cells.

Reagents

- Plasmid DNA
- New England Biolabs Mix & Go Cells
- SOB media
- Luria Broth/Kanamycin plates

Equipment

- Parafilm
- Pipette
- Centrifuge
- Ice and bucket
- Incubation cabinet

Procedure

1. Add 1-5 µL of plasmid DNA to a tube of thawed Mix & Go cells on ice, mixing gently for a few seconds.
    a. *Try to keep the added volume of DNA less than 5% of the total.*
2. After the transformation mixture has incubated on ice for 5-10 minutes, add 4 volumes of SOC (400 µl of SOB:100 µl of transformation mixture) and incubate for 1 hour at 37°C with gentle shaking at 200-300 rpm.
3. Spread 50-100 µL of the mixture onto a pre-warmed (37°C) culture plate containing LB/Kanamycin.
4. Parafilm the edges of the plate and incubate at 37°C for the colonies to grow.