Purpose: To amplify a sequence of DNA

PCR Protocol

20 µL Reaction

1. Prepare a PCR concentration cocktail with the following proportions: 7 µL of diH2O, 10 µL PCR Mastermix, 1 µL of the forward primer, and 1 µL of the reverse primer.
2. Add 19 µL of the concentration cocktail into a PCR tube along with 1 µL of the DNA.
2. Place PCR tube in the thermocycler at the following generic settings:
    1. 95° C for 3:00 minutes
    2. 95° C for 1:00 minute
    3. 52° C for 1:00 minute *Annealing temperature varies depending on primer
    4. 72° C for 1:00 minute
    5. 30X (Go to Step 2)
    6. 72° C for 5:00 minutes

    Lid Temperature: 105° C

Colony PCR Protocol

20 µL Reaction

1. Prepare a PCR concentration cocktail with the following proportions: 7 µL of diH2O, 10 µL PCR Mastermix, 1 µL of the forward primer, and 1 µL of the reverse primer.
2. Add 19 µL of the concentration cocktail into a PCR tube.
3. Using a 10 µL micropipette, touch the tip onto the selected colony and swirl around in the PCR tube.
4. Place PCR tube in the thermocycler at the following generic settings:
    1. 95° C for 3:00 minutes
    2. 95° C for 1:00 minute
    3. 52° C for 1:00 minute *Annealing temperature varies depending on primer
    4. 72° C for 1:00 minute
    5. 30X (Go to Step 2)
    6. 72° C for 5:00 minutes

    Lid Temperature: 105° C