Transformation of E. coli with G2-D

Participants: Brianna Branson, Rori Hoover, Patrick Jiang

Date: Friday, June 30, 2023

Protocol:

1. Thawed NEB 10-beta Competent E. coli cells on ice for 10 minutes
2. Added 25 µL E. coli cells to a microfuge tube
3. Added 2 µL G2-D plasmid to the tube
4. Flicked tube to mix and briefly centrifuged the samples down
5. Placed tubes on ice for 30 minutes
6. Heat shocked E. coli in a 42 °C water bath for 30 seconds
7. Placed tubes on ice for 5 minutes
8. Added 475 µL outgrowth medium to each tube
9. Incubated E. coli at 37 °C and shook at 400 rpm for 1 hour

Results: N/A

Conclusion: N/A

No control?

Chemistry team – as practice

Plating G2-D Transformed E. coli

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Date: Friday, June 30, 2023

Protocol:

1. Warmed 2 LB-agar kanamycin plates in a 37 °C incubator
2. Pipetted 100 µL E. coli cells onto a plate
3. Spread cells across plate using 3 glass beads
4. Incubated at 37 °C overnight

Results: There was an overabundance of pink growth on the plate with E. coli that had G2-D transformed into them.

Conclusion: Our results indicate that we were successful in transforming E. coli.