

G5 Amplification??

Participants: Brianna Branson, Rori Hoover, Patrick Jiang

Date: Friday, July 28, 2023

Protocol:

1. Prepared a 25 μ L reaction in a PCR tube with the following components:

Component	Volume
10 μ M forward primer	1.25 μ L
10 μ M reverse primer	1.25 μ L
10 ng template DNA (??)	1 μ L
Q5 High-Fidelity 2X Master Mix	12.5 μ L
Nuclease-free water	4 μ L
Total	25 μL

2. Amplified the DNA in the 25 μ L reaction with a thermocycler using the following conditions:

Step	Temperature	Time	Number of cycles
Initial denaturation	98 $^{\circ}$ C	30 sec	1
Denaturation	98 $^{\circ}$ C	10 sec	30
Annealing	57 $^{\circ}$ C	30 sec	30
Extension	72 $^{\circ}$ C	30 sec	30
Final extension	72 $^{\circ}$ C	2 min	1
Hold	10 $^{\circ}$ C	Forever	-

Results: N/A

Conclusion: N/A

Plating on M9 with Hexanoic Acid in Two Forms

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Date: Friday, July 28, 2023

Protocol:

1. Warmed M9 plates in a 37 °C incubator
2. Serially streaked G4C?? transformed E. coli onto the plate using a sterilized streaking tool
3. Incubated at 37 °C over the weekend

Results: ???

Conclusion: ???