

E. coli G2-D DNA Miniprep

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Protocol:

Note: these steps follow those outlined in the Monarch® Plasmid DNA Miniprep Kit Protocol (NEB #T1010) General Guidelines by New England Biolabs.

1. Transferred 5 mL of the liquid culture into a microfuge tube
2. Centrifuged at 13,000 rpm for 30 seconds and discarded supernatant
3. Resuspended pelleted cells in 200 μ L Plasmid Resuspension Buffer
4. Added 200 μ L Plasmid Lysis Buffer to each tube and gently inverted the tubes until the solution turned dark pink
5. Incubated cells on the bench for 1 minute
6. Added 400 μ L Neutralization Buffer to each tube and inverted the tubes until the solution turned yellow and a precipitate formed
7. Incubated cells on the bench for 2 minutes
8. Centrifuged tube at 13,000 rpm for 5 minutes
9. Inserted a spin column into a collection tube and transferred the supernatant into the column
10. Centrifuged the tube at 13,000 rpm for 1 minute and discarded flow-through
11. Added 200 μ L Plasmid Wash Buffer 1 to each column and centrifuged all of the columns at 13,000 rpm for 1 minute
12. Added 400 μ L Plasmid Wash Buffer 2 to each column and centrifuged all of the columns at 13,000 rpm for 1 minute
13. Transferred each column to a clean 1.5 mL microfuge tube
14. Added 30 μ L Elution Buffer to each tube
15. Waited 1 minute before centrifuging all of the tubes at 13,000 rpm for 1 minute

Results: N/A

Conclusion: N/A