GEONOMIX
Bacterial DNA Purification Kit
Solution Based

DATA SHEET

Cat. No:	GE-002
Lot No:	
Quantity:	50 purifications
Shipping:	Ambient Tempreture
Storage Conditions:	Room temperature for all reagents
Shelf Life:	One year from the date of manufacture
Form:	Buffer Solutions

KIT CONTENTS

Solution A:	Resuspension Buffer, 30 mL
Solution B:	Lysis Buffer, 20 mL
Solution C:	Precipitation Buffer, 15 mL
Solution D:	Wash Buffer 15 mL. Add 35 mL of ethanol (96-98%)
Lysozyme:	100 mg/mL. Add 200 µL of Solution A before use
RNAse A:	200 mg/mL. Add 200 µL of nuclease free H_20 before use

QUALITY CONTROL STATEMENT

Passes quality control requirement:

Date, Signature:

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PROCEDURE

1. Spin down 1.5 -2mL of bacterial culture for 2 min 10-14000 x *g*.
2. Discard supernatant into 10% bleach solution.
3. Resuspend pellet in 500 µl of Solution A, mix thoroughly using a pipette. No clumps must be observed.
4. Add 3 µl of Lysozyme, vortex thoroughly.
5. Incubate at room temperature (RT) for 120 minutes, vortexing periodically.
6. Spin down for 5 min at 10-14000 x *g*, Decant the supernatant into 10% bleach solution.
7. Add 300 µl of Solution B, resuspend the pellet and vortex.
8. Incubate at 65°C for 30 min.
9. Cool the mixture to RT, add 2 µL of RNAse A.
10. Incubate at room temperature for 30 min.
11. Incubate at 95°C for 10 min.
12. Cool the mixture to RT, add 200 µL of Solution C and vortex.
13. Centrifuge at 10-14000 x *g* for 5 min.
14. Transfer the supernatant into a clean tube and add 2 volumes of 96 -98% ethanol, vortex.
15. Spin down at 10-14000 x *g* for 5 min.
16. Precipitated DNA should be observable. If you do not see the pellet, decant the liquid carefully.
17. Add 300 µl of Solution D and vortex .
18. Spin down at 10-14000 x *g* for 2 min, carefully decant the liquid.
19. Let the tube air-dry/or vaccum-dry for 10 min.
20. Add 100 ul of Solution A
21. If the DNA does not dissolve immediately, incubate the tube at 37°C for 30 min.

Eluted DNA is stable for 2 weeks at 4˚C; 6 months at -20˚C and one year at -80˚C

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