Genomic DNA Prep Kit (Bacteria)

9K-006-0014 (400 preps) / 9K-006-0019 (3300 preps)

store at room temperature 20°C ~ 25°C

BIO BASIC INC.

Protocol

Prepare 100% Isopropanol and 80% Ethanol before using kit. Please follow instruction on the provided vials to obtain recommended enzyme concentration: Lysozyme (100mg/mL) RNaseA (4mg/mL) and store those solutions at -20°C. Preheat a bath at 37°C and 65°C for incubations.

Cell Lysis

1. Transfer 1 mL of cultured cell to a 1.5 mL microcentrifuge tube. In case cell density is low, 2mL of Cultured cells can be used.
2. Harvest the cells by centrifugation (13,000 ~16,000xg, 1 min.) and discard the supernatant.
3. Resuspend the cell pellet in 300µL of **Cell Resuspension Solution**.
4. Add 2µL of **Lysozyme** (100 mg/mL) and mix well by inverting.
5. Incubate the tube at 37°C for 1 hour.
6. Centrifuge (13,000 ~ 16,000xg for 1 min.) and discard the supernatant.
7. Resuspend the pellet in 300µL of **Cell Lysis Solution**.

RNase Treatment

8. Add 1.5µL of **RNase A (4mg/mL)** and mix by inverting.
9. Incubate at 37°C for 15 ~16 min. and cool on ice for 1 min.

Protein Precipitation

10. Add 50~100µL of **Protein Precipitation Solution** and vortex vigorously for 20 ~ 30 sec.
11. Centrifuge at 13,000 ~16,000xg for 5 min.
12. Transfer the supernatant to a clean 1.5mL micro tube containing 300µL of **100% Isopropanol**.
13. Mix the sample thoroughly by gentle inversions.
14. Centrifuge at 13,000 ~16,000xg for 1 min. (White DNA pellet will be formed.)
15. Discard the supernatant and drain tube briefly on a clean absorbent paper. Add 500µL of (**80% Ethanol**) and invert the tube several times to wash the DNA pellet.
16. Centrifuge at 13,000 ~ 16,000xg for 1 min. Carefully discard the Ethanol.
17. Air dry at room temperature for 10 ~15 min.

DNA Hydration

18. Add 20 ~100µL of **DNA Hydration Solution** to the dried DNA pellet.
19. Hydrate the DNA by incubating at 65°C for 1 hour.
20. Store the DNA at 4°C. (For long time storage, store at -20°C or -80°C).