Genomic DNA Prep Kit (Yeast)

9K-006-0017 (400 preps) / 9K-006-0022 (3300 preps)

store at room temperature 20°C ~ 25°C

BIO BASIC INC.

Protocol

Prepare 100% Isopropanol and 80% Ethanol before using kit. Follow instruction on the provided vials of RNase A and Lyticase vial to obtain RNase A (4mg/mL) and Lyticase (2.5U/µL) and store those vials at -20°C.
Preheat a source at 65°C for RNase reaction incubation.

Cell Lysis

1. Transfer 1mL of the cultured cell into a 1.5mL microcentrifuge tube.
2. Harvest the cell by centrifuging (13,000~16,000xg, 1 min.) and discard supernatant.
3. Resuspend the cell pellet in 300µL of **Cell Resuspension Solution**.
4. Add 1µL of **Lyticase** (2.5U/µL) and mix by gentle inversions.
5. Incubate the tube at 37°C for 60 min.
6. Centrifuge (13,000~16,000g, 1 min), and discard the supernatant.
7. Resuspend the pellet in 300µL of **Cell Lysis Solution**.

Protein Precipitation

8. Add 100µL of **Protein Precipitation Solution** and vortex vigorously for over 20 sec.
9. Centrifuge at 13,000~16,000xg for 5 min.

DNA Precipitation

10. Transfer the supernatant to a clean1.5mL microcentrifuge tube containing 300µL of **100% Isopropanol** (2-propanol).
11. Mix the sample thoroughly by gentle inversions.
12. Centrifuge at 13,000~16,000xg for 1 min. (White DNA pellet will be formed.)
13. Discard the supernatant and drain the tube briefly on clean absorbent paper. Add 300µL of **80% Ethanol** and invert the tube several times to wash the DNA pellet.
14. Centrifuge at 13,000~16,000xg for 1 min. Carefully discard the ethanol.
15. Air dry at room temperature for 10~15 min.

DNA Hydration

16. Add 50µL~100µL of **DNA Hydration Solution** to the dried DNA pellet.
17. Hydrate the DNA by incubating at 65°C for 1 hour.
18. Add 1.5µLof **Rnase A** (4mg/mL) and incubate at 37°C for 30 min.
19. Store the DNA at 4°C. (For long time storage, store at -20°C or -80°C).