

Genomic DNA Isolation and Purification: ZR Fungal/Bacterial DNA Kit

1. Add **750 µl** of **Lysis solution** to the **ZR Bashing Bead™ Lysis Tube** along with two big loopfuls of bacterial/fungal cells.
2. Secure tube in the bead beater, filled with a 2.0 ml tube holder assembly (holds up to 16 samples), and process as max speed for 1-2 minutes.
3. Centrifuge the lysis tube at 10,000 rpm for one minute.
4. Insert a **Zymo-Spin™ IV Spin Filter** (orange top, snap off base of spin filter prior to use) into a **collection tube**.
5. Add **1,200 µl** of **Fungal/Bacterial DNA Binding Buffer** to the filtrate in collection tube from step 5.
6. Transfer **800 µl** of the mixture from step 6 to a **Zymo-Spin™ IIC Column** in another collection tube and centrifuge at 10,000 rpm for one minute.
7. Discard flow through from the collection tube and **repeat step 6**.
8. Add **200 µl** of **DNA Pre-Wash Buffer** to the **Zymo-Spin™ IIC Column** and centrifuge at 10,000 rpm for one minute.
9. Add **500 µl** of **Fungal/Bacterial DNA Wash Buffer** to the **Zymo-Spin™ IIC Column** and centrifuge for one minute.
10. Transfer the **Zymo-Spin™ IIC Column** to a clean sterile 1.5 ml microcentrifuge tube and add **25-30 µl** of **DNA Elution Buffer or Water** directly to the column matrix. Centrifuge at 10,000 rpm for 30 seconds to elute the DNA.
11. The DNA is now purified and ready for PCR.