## **Protocol: Easy Yeast DNA Extraction**

DNA is isolated from yeast using the crude procedure below. This protocol involves lysing the cells in the presence of lithium acetate (LiOAc) and sodium dodecyl sulfate (SDS). The lysate is treated with RNase A to degrade RNA, and DNA is precipitated in ethanol.

## **Yeast DNA Lysis Buffer:**

Stock	Volume	Final Concentration
1M LiOAc	2 ml	200mM
10% SDS	1 ml	1%
H₂O	8 ml	

## **Protocol:**

- 1. Move 500 μl of a 24-hour old culture of yeast to a microcentrifuge tube.
- 2. Centrifuge at 6,000 x g for 1 minute. Decant supernatant.
- 3. Add 100 µl of Yeast DNA Lysis Buffer and resuspend the pellet thoroughly.
- 4. Incubate on a 70°C heat block for 15 minutes.
- 5. Place the lysate on ice for 5 minutes to cool.
- 6. Add 1 μl RNase A and incubate at 37°C for 15 minutes.
- 7. Add 300 µl 100% EtOH to the lysate and vortex.
- 8. Centrifuge the lysate at 20,000 x g for 3 minutes.
- 9. Decant supernatant, and wick away residual liquid using a Kimwipe. Allow any residual ethanol to evaporate.
- 10. Add 100 µl TE to the pellet and resuspend thoroughly. Allow the sample to rest for 30 minutes at room temperature.
- 11. Centrifuge at 20,000 x g for 1 minute. Remove the clear liquid portion of the sample (containing DNA) to a new microcentrifuge tube and label appropriately.