

Yeast Genomic DNA Isolation Kit

Norgen's Yeast Genomic DNA Isolation Kit is designed for the rapid preparation of genomic DNA from up to 1×10^8 viable yeast cells (between 0.5 and 1 mL of culture). Purification is based on spin column chromatography using Norgen's patented resin as the separation matrix. Norgen's resin binds DNA under high salt concentrations and releases the bound DNA under low salt and slightly alkali conditions. The purified DNA is free of RNA and cellular proteinaceous components, and is suitable for many downstream applications.



The Yeast Genomic DNA Isolation Kit allows for the isolation of genomic DNA from yeast and other cultured fungi. Typical purification yields will vary depending on the cell density of the yeast or fungal culture and species.

| Kit Specifications | | | |
|-------------------------|---------------------------------|-----------------------------------|------------|
| Maximum Input | 1 x 10 ⁸ yeast cells | Average Yield* | Up to 10µg |
| Column Binding Capacity | 25 µg | Time to Complete 10 Purifications | 90 minutes |

* Average yield will vary due to cell density of the yeast or fungal culture, the growth conditions and the species.

Yeast Genomic DNA Isolation Kit Benefits

| | |
|---|--|
| Fast and easy processing | Rapid spin-column format allows for the processing of multiple samples in 90 minutes. |
| High binding capacity of columns | The binding capacity of the columns in the Yeast Genomic DNA Isolation Kit is 25 µg. |
| Isolate genomic DNA from yeast and other fungi | Genomic DNA can be isolated from both yeast and other types of cultured fungi. |
| Recovered genomic DNA is suitable for downstream applications | Purified genomic DNA is fully compatible with restriction enzyme digestions, PCR and Southern Blot analysis. |
| High quality DNA | No degradation of the genomic DNA isolated with the Yeast Genomic DNA Isolation Kit is observed (Figure 1). |

Yeast Genomic DNA Isolation Kit

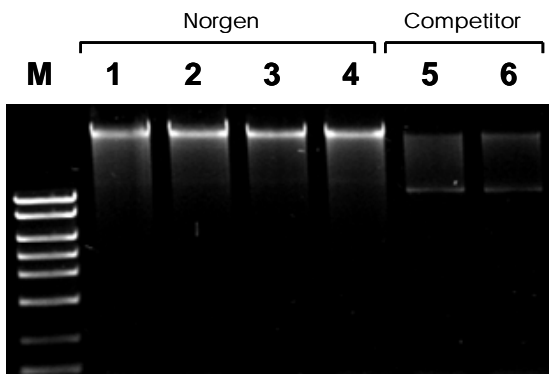


Figure 1. Isolation of High Quality Genomic DNA
Genomic DNA was isolated from yeast using Norgen's Yeast Genomic DNA Isolation Kit and a leading competitor's kit. Equal proportions of each elution were run on a 0.9% agarose gel. Note the quality, consistency and yield of the DNA isolated using Norgen's kit (Lanes 1 - 4) as compared to the DNA isolated using the competitor's kit (Lanes 5 and 6). Lane M is Norgen's MidRanger 1 kb DNA Ladder.

Yeast Genomic DNA Isolation Kit Contents

1. Resuspension Solution Concentrate
2. Lysis Solution
3. Binding Solution
4. Proteinase K (lyophilized)
5. Wash Solution I
6. Wash Solution II
7. Elution Buffer
8. Micro Spin Columns
9. Elution Tubes
10. Product Insert

Shipping Conditions

The Yeast Genomic DNA Isolation Kit is shipped at room temperature.

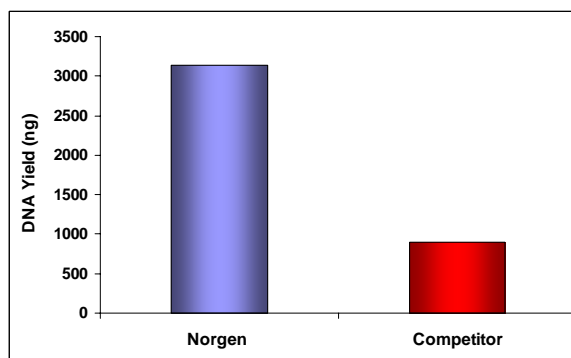


Figure 2. High Yield Purification

Genomic DNA was isolated from identical input volumes of yeast using Norgen's Yeast Genomic DNA Isolation Kit and a competitor's kit. It was found that much higher yields of DNA were obtained with Norgen's kit when compared to the competitor.

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- 1.5 mL microcentrifuge tubes
- 55°C water bath or heating block
- 37°C water bath or heating block
- 96 - 100% ethanol
- RNase A (optional)
- Lyticase
- β-mercaptoethanol
- Sorbitol

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. These reagents should remain stable for 1 year in their unopened containers. The lyophilized Proteinase K should be stored at -20°C upon arrival and after reconstitution.

| Cat # | Description | Quantity |
|-------|---------------------------------|----------|
| 18600 | Yeast Genomic DNA Isolation Kit | 50 preps |