

Plasmid MiniPrep Kit

Norgen's Plasmid MiniPrep Kit enables rapid analytical scale preparation of high quality plasmid DNA. 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 genomic DNA, RNA and cellular proteins and is suitable for many downstream applications.

Norgen's Plasmid MiniPrep Kit is able to purify plasmids up to 13,000 bp. Each column has a binding capacity of 25 µg, and the typical purification yield is up to 20 µg from 1.5 mL of bacterial culture.



Kit Specifications			
Column Binding Capacity	25 µg	Size of Plasmids Purified	Up to 13,000 bp
Average Yield from 1.5 mL Culture	Up to 20 µg	Time to Complete 10 Purifications	30 minutes

Plasmid MiniPrep Kit Benefits

Fast and easy processing	Rapid spin-column format allows for the processing of multiple samples in 30 minutes.
High binding capacity of columns	The binding capacity of the columns in the Plasmid MiniPrep Kit is 25 µg.
High recovery	Up to 20 µg of plasmid DNA can be purified from 1.5 mL of bacterial culture.
Recovered plasmid DNA is suitable for downstream applications	Purified plasmid DNA is fully compatible with restriction enzyme digestions and sequencing (Figure 2).

Plasmid MiniPrep Kit

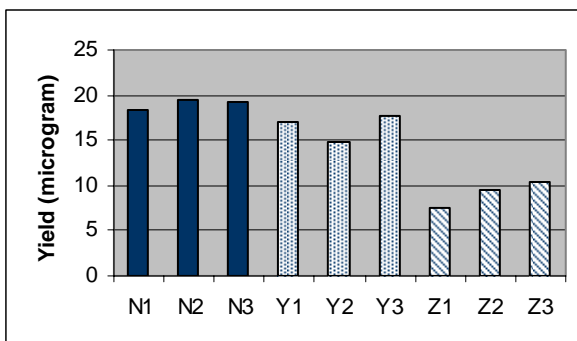


Figure 1. High DNA Yield from Small Cultures

Plasmid DNA from bacterial cultures grown overnight was prepared with Norgen's Plasmid MiniPrep Kit and compared with two other commercial kits. The yield for each of the triplicates is shown on the graph (N1 to N3 for Norgen, and Y1 to Y3 and Z1 to Z3 for competitor kits).

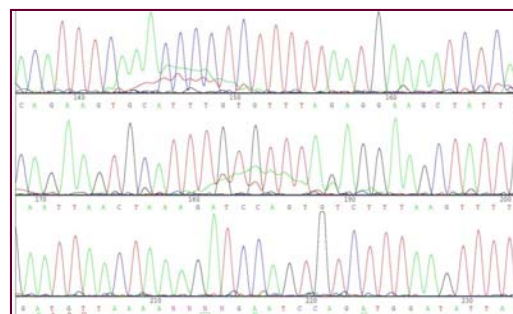


Figure 2. High-Accuracy Sequencing

Sequencing of purified plasmid DNA as a template resulted in an accuracy of 99% over a 950 bp contiguous sequence.

Plasmid MiniPrep Kit Contents

1. Resuspension Buffer
2. Lysis Solution
3. Binding Solution
4. RNase
5. Wash Solution
6. Elution Buffer
7. Micro Spin Columns
8. Collection Tubes
9. Elution Tubes
10. Product Insert

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- 1.5 mL microcentrifuge tubes

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. These reagents should remain stable for at least 1 year in their unopened containers. The RNase should be stored at -20°C upon arrival. The Resuspension Buffer should be stored at 4°C upon addition of RNase enzyme.

Shipping Conditions

The Plasmid MiniPrep Kit is shipped at room temperature.

Cat #	Description	Quantity
13300	Plasmid MiniPrep Kit	50 samples
13400	Plasmid MiniPrep Kit	100 samples