

Plasmid MaxiPrep Kit

Norgen's Plasmid MaxiPrep Kit provides a rapid method for preparation of large quantities 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 kit purifies DNA without alcohols, a significant improvement over other techniques to achieve full compatibility with alcohol-sensitive applications. The purified DNA is free of genomic DNA, RNA and cellular proteins and is suitable for many downstream applications.

Norgen's Plasmid MaxiPrep Kit is able to purify up to 1.5 mg of plasmid DNA from 150 mL of bacterial culture containing a high copy number plasmid.



Plasmid MaxiPrep Kit Benefits

Fast and easy processing	Rapid spin-column format allows for the processing of multiple samples in 2 hours.
High binding capacity of columns	The binding capacity of the columns in the Plasmid MaxiPrep Kit is 1.5 mg.
High recovery	Up to 1.5 mg of plasmid DNA can be purified from 150 mL of bacterial culture.
Recovered plasmid DNA is suitable for downstream applications	Purified plasmid DNA is fully compatible with restriction enzyme digestions, sequencing and transfections.
Alcohol-free protocol	No alcohols are used during the plasmid purification process, thus the DNA is compatible with alcohol sensitive downstream applications.

Plasmid MaxiPrep Kit

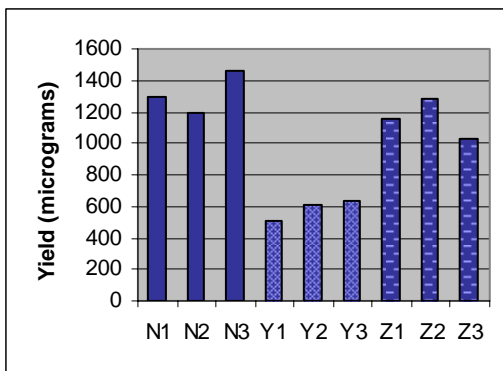


Figure 1. High DNA Yield from 150 mL Cultures

Plasmid DNA from bacterial cultures grown overnight was prepared with Norgen's Plasmid MaxiPrep 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).

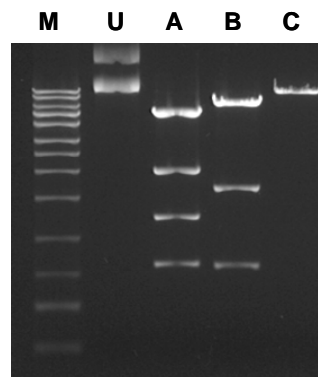


Figure 2. Full Compatibility with Restriction Digests

DNA isolated with Norgen's Plasmid MaxiPrep kit is easily digestible, often requiring less than 1 hour for full digestion. In Figure 2, a 9,309 bp plasmid was purified and digested with *Bam*HI (lane A), *Hind*III (lane B), and *Sma*I (lane C). Lane U is uncut plasmid, and lane M is the Norgen UltraRanger 1kb DNA ladder.

Plasmid MaxiPrep Kit Contents

1. Resuspension Buffer
2. Lysis Solution
3. Neutralization Solution
4. Binding Solution
5. RNase A
6. RNase T1
7. Wash Solution
8. Elution Buffer
9. Maxi Spin Columns
10. Filter Columns
11. Elution Tubes
12. Short Protocol Card
13. User Manual

Customer-Supplied Reagents and Equipment

- Centrifuge with a swinging bucket rotor capable of 3000 x g
- Centrifuge capable of 14 000 x g

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. The RNase A should be stored at -20°C upon arrival. Once RNase A has been added to the Resuspension Buffer, the solution should be stored at 4°C. The RNase T1 should be stored at 4°C upon arrival and after reconstitution. These reagents should remain stable for at least 1 year in their unopened containers.

Shipping Conditions

The Plasmid MaxiPrep Kit is shipped at room temperature.

Cat #	Description	Quantity
15300	Plasmid MaxiPrep Kit	4 samples