

## Plasmid DNA MaxiPrep Kit

Norgen's Plasmid DNA MaxiPrep Kit provides a rapid method for the preparation of large quantities of high quality DNA. Typical yields from a 100 mL culture for a high copy number plasmid are between 0.4 and 1.0 mg, with final endotoxin levels of 0.1 EU/ $\mu$ g of DNA or less. The kit can be used to purify plasmids up to 13,000 bp in size. The purified DNA is fully digestible with all restriction enzymes tested, and is completely compatible with manual or automated sequencing to achieve 95-100% accuracy. The plasmid DNA can also be used for cloning or transfections.

Purification is based on spin column chromatography. Norgen's columns bind DNA under high salt concentrations and release 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.

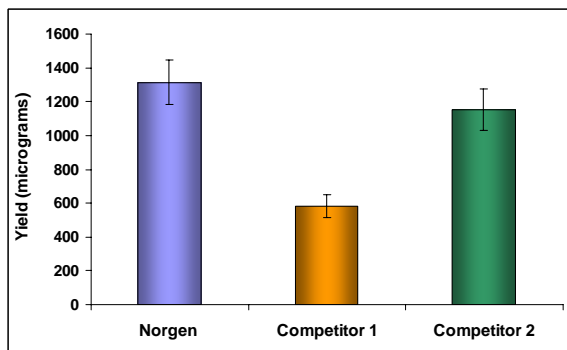


Kit Specifications			
Column Binding Capacity	1.5 mg	Size of DNA Purified	Up to 13,000 bp
Average Yield from 100 mL Culture	0.4 - 1 mg	Minimum Elution Volume	2 mL
Final Endotoxin Level	$\leq 0.1$ EU/ $\mu$ g DNA	Time to Complete 10 Purifications	1.5 hours

### Plasmid MaxiPrep Kit Benefits

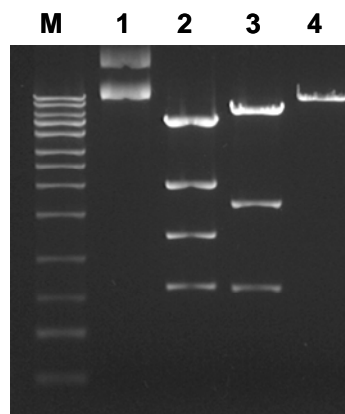
Fast and easy processing	Rapid spin-column format allows for the processing of multiple samples in 1.5 hours.
High binding capacity of columns	The binding capacity of the columns in the Plasmid MaxiPrep Kit is 1.5 mg.
High recovery	Up to 1 mg of plasmid DNA can be purified from 100 mL of bacterial culture.
Recovered plasmid DNA is suitable for downstream applications	Purified plasmid DNA is fully compatible with restriction enzyme digestions, sequencing and transfections.

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**Figure 1. High DNA Yield from 150 mL Cultures**

Plasmid DNA from bacterial cultures grown overnight was prepared with Norgen's Plasmid DNA MaxiPrep Kit and compared with two other commercial kits. The purifications were performed in triplicate, and the average yield for each kit is shown in the graph. Norgen's kit shows a significantly higher average yield than the other 2 competitor's kits.



**Figure 2. Full Compatibility with Digests**

DNA isolated with Norgen's Plasmid DNA 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 2), *Hind*III (Lane 3), and *Sma*I (Lane 4). Lane 1 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. RNase
5. Wash Solution
6. Elution Buffer
7. Maxi Spin Columns
8. Filter Columns
9. Elution Tubes
10. Product Insert

### Shipping Conditions

The Plasmid MaxiPrep Kit is shipped at room temperature.

### Customer-Supplied Reagents and Equipment

- Centrifuge with a swinging bucket rotor capable of 3000 x g
- Centrifuge capable of 14 000 x g
- 96 - 100% ethanol

### Storage Conditions

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

Cat #	Description	Quantity
46500	Plasmid MaxiPrep Kit	4 preps
46600	Plasmid MaxiPrep Kit	20 preps