

Plasmid DNA MaxiPrep Kit

Norgen's Plasmid DNA MaxiPrep Kit is designed for the rapid preparation of plasmid DNA from up to 100 mL of *Escherichia coli* culture. The kit allows for the isolation of plasmid DNA with final endotoxin levels of 0.1 EU/mg of DNA or less. The kit is able to purify plasmids up to 13,000 bp in size, and typical yields from a 100 mL culture for a high copy number plasmid are between 0.4 and 1.0 mg. 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.

Purification is based on spin column chromatography. The plasmid DNA is preferentially purified from other cellular components such as genomic DNA and RNA.



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	≤ 0.1 EU/μg DNA	Time to Complete 10 Purifications	1.5 hours

* Depends on high-copy, low-copy DNA

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.

Plasmid DNA MaxiPrep Kit

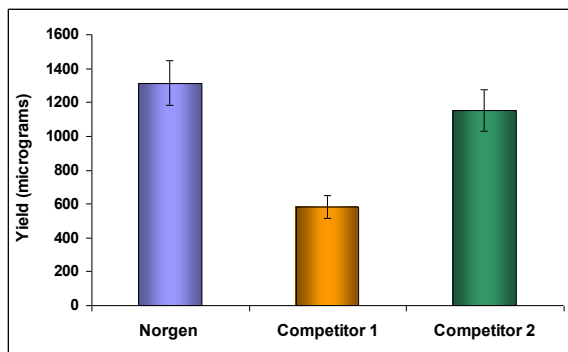


Figure 1. High DNA Yield from 150 mL Cultures

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.

Plasmid MaxiPrep Kit Contents

1. Resuspension Solution AZ
2. Lysis Buffer N
3. Buffer TN
4. Wash Solution J
5. Elution Buffer J
6. RNase
7. DNA Maxi Spin Columns with Collection Tubes
8. Maxi Spin Filter Columns with Collection Tubes
9. Elution Tubes (50 mL)
10. Product Insert

Shipping Conditions

The Plasmid MaxiPrep Kit is shipped at room temperature.

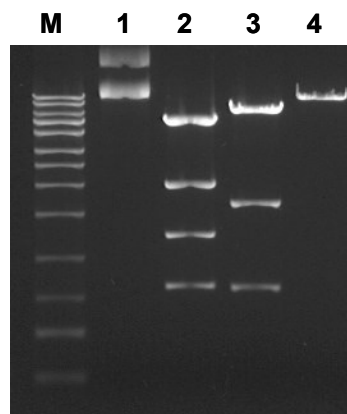


Figure 2. Full Compatibility with Digests

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.

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