

DNA Gel Extraction Kit

Norgen's DNA Gel Extraction Kit enables rapid purification of fractionated DNA fragments in agarose gels. Purification is based on spin column chromatography. Chaotropic salts are used to melt agarose gel slices and also allow reversible binding of the target DNA to the column. The kit effectively removes gel contaminants, allows for buffer exchange and yields high quality DNA appropriate for many downstream applications.

Norgen's DNA Gel Extraction Kit is able to recover DNA ranging in size from 100 bp to 15,000 bp. Each column has a binding capacity of 10 µg, and the typical purification yield is up to 90% of the input amount.



Kit Specifications			
Column Binding Capacity	10 µg	Size of DNA Purified	100 - 15,000 bp
Maximum Weight of Gel Slice	400 mg	Minimum Elution Volume	30 µL
Average Recovery	70 - 90%	Time to Complete 10 Purifications	20 minutes

DNA Gel Extraction Kit Benefits

Fast and easy processing	Rapid spin-column format allows for the processing of multiple samples in 20 minutes.
High recovery	Recovery of DNA fragments up to 90% for inputs of > 1 µg.
Recovered DNA is suitable for downstream applications	Purified DNA is fully compatible with restriction digestions, ligations, and other downstream applications.
Useable with a variety of agarose percentages	Kit is compatible with agarose gel concentrations of up to 4%

DNA Gel Extraction Kit

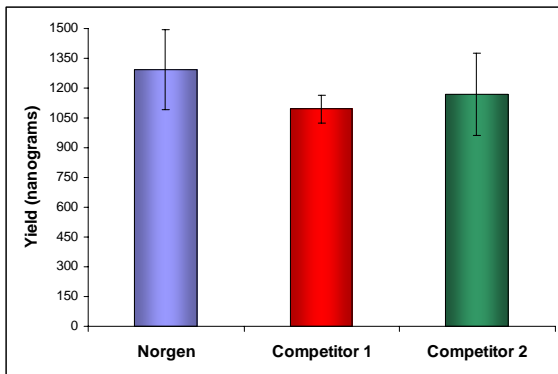


Figure 1. Efficient Recovery from Agarose Gels

A 500bp fragment was purified from a 1% agarose gel using Norgen's DNA Gel Extraction Kit and two other commercial kits. The Norgen kit shows a significantly higher efficiency compared to the competitor kits based on the average of three purifications.

DNA Gel Extraction Kit Contents

1. Binding Solution
2. Wash Solution
3. Elution Buffer
4. Spin Columns inserted in Collection Tubes
5. Elution Tubes
6. User Manual

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- 95% ethanol
- Isopropanol

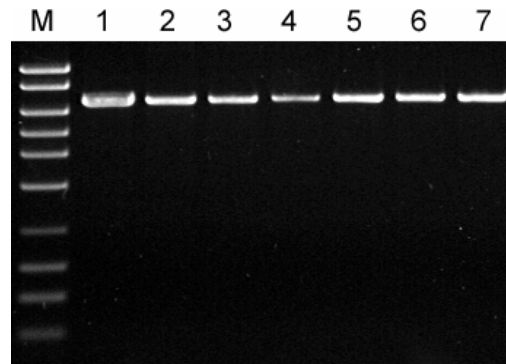


Figure 2. Efficient Recovery of Large DNA Fragments

A 3,700bp fragment was purified from a 0.9% agarose gel using Norgen's DNA Gel Extraction Kit (Lanes 5-7) and a competitor's kit (Lanes 2-4). Lane 1 indicates 20% of the input amount, while lanes 2-7 contain 20% of the eluted amount. Again, Norgen's kit shows a higher recovery than the competitor's kit.

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.

Shipping Conditions

The DNA Gel Extraction Kit is shipped at room temperature.

Cat #	Description	Quantity
13100	DNA Gel Extraction Kit	50 preps