

PCR Purification Kit

Norgen's PCR Purification Kit enables the rapid purification of amplified DNA products from PCR mixes. This kit is able to effectively remove PCR by-products including primers, dimers, enzymes, unincorporated nucleotides and mineral oil from the desired PCR product. The purified PCR products are fully compatible with restriction enzyme digestion, ligation into vectors, labeling and sequencing. This kit can also be used as an alternative to organic extraction and ethanol precipitation to clean up various enzymatic reactions. Purification is based on spin column chromatography. Norgen's column binds DNA under high salt concentrations and releases the bound DNA under low salt and slightly alkali conditions.



Kit Specifications - Spin Columns			
Column Binding Capacity	10 µg	Average Primer Removal	> 90%
Size of DNA Purified	100 - 15,000 bp	Minimum Elution Volume	30 µL
Average Recovery	> 90%	Time to Complete 10 Purifications	15 minutes

Kit Specifications - 96 well plates			
Binding Capacity Per Well	15 µg	Average Primer Removal	> 90%
Maximum Loading Volume Per Well	500 µL	Minimum Elution Volume	50 µL
Size of DNA Purified	100—15,000 bp	Time to Complete 96 Purifications	20 minutes

PCR Purification Kit Benefits

Fast and easy processing	Rapid spin-column format allows for the processing of multiple samples in 15 minutes.
Purification from all PCR by-products	The kit removes primer-dimers (Figure 2), primers, mineral oil, unincorporated nucleotides, enzymes and salts.
High recovery	Recovery of PCR products is greater than 90% of input amount.
Recovered DNA is suitable for downstream applications	Purified DNA is fully compatible with restriction digestions, ligations, labeling and sequencing.
Can be used as an alternative to organic extraction and ethanol precipitation	The kit can also be used to clean-up various enzymatic reactions, including digestions and Klenow reactions.

PCR Purification Kit

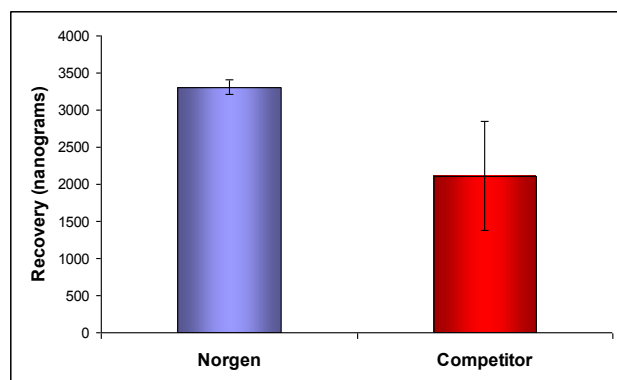


Figure 1. High Yield Purification

The high yield of Norgen's PCR Purification Kit is illustrated by purifying a 500bp PCR-amplified product from a reaction mixture and comparing the recovery with a competitor. The purifications were performed in triplicate, and the average yield for each kit is shown in Figure 1. Norgen's kit shows a significantly higher recovery than the competitor's kit.

PCR Purification Kit Contents

1. Binding Buffer C
2. Wash Solution A
3. Elution Buffer B
4. Spin Columns inserted into Collection Tubes
5. Elution tubes (1.7 mL)
6. Product Insert

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- 95% ethanol

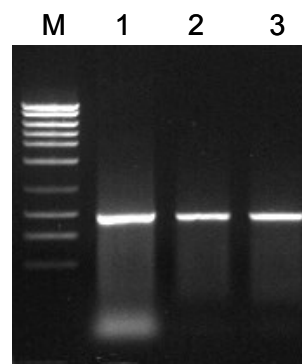


Figure 2. Removal of Primer-Dimers

Primer-dimers present in PCR reactions are effectively removed during the purification process with Norgen's PCR Purification Kit. A 700bp PCR fragment (Lane 1) was purified using Norgen's kit, with high recovery and no traces of primer-dimer present in the elutions (Lanes 2 and 3). Lane 1 contains 40% of the input, and Lanes 2 and 3 contain 40% of 2 different elutions. Lane M is Norgen's MidRanger 1kb DNA Ladder.

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 PCR Purification Kit is shipped at room temperature.

Cat #	Description	Quantity
14400	PCR Purification Kit	50 preps
45700	PCR Purification Kit	250 preps
24800	PCR Purification 96-Well Kit	2 x 96 well