

## PCR Purification Kit

Norgen's PCR Purification Kit enables the rapid purification of amplified DNA products from PCR mixes. 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. This kit is able to effectively remove PCR by-products including primers, dimers, enzymes, unincorporated nucleotides and mineral oil from the desired PCR product.

Norgen's PCR Purification Kit is able to purify amplified DNA ranging in size from 100 bp to 15,000 bp. Each column has a binding capacity of 25 µg, and the typical purification yield is greater than 90% of the input amount.

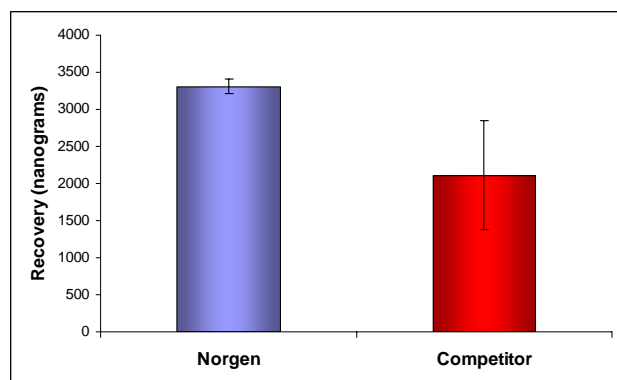


| Kit Specifications      |                 |                                   |            |
|-------------------------|-----------------|-----------------------------------|------------|
| Column Binding Capacity | 25 µg           | Average Primer Removal            | > 90%      |
| Size of DNA Purified    | 100 - 15,000 bp | Minimum Elution Volume            | 30 µL      |
| Average Recovery        | > 90%           | Time to Complete 10 Purifications | 15 minutes |

### 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**

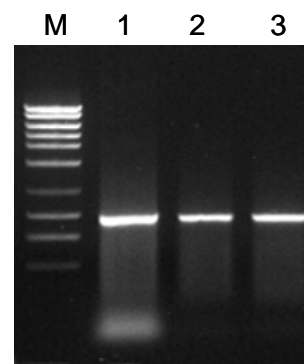
The high yield of Norgen's PCR Purification Kit is illustrated by purifying a 500bp PCR-amplified product from a reaction mixture and comparing the recovery with a competitor. The purifications were performed in triplicate, and the average yield for each kit is shown in Figure 1. Norgen's kit shows a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

### PCR Purification Kit Contents

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

### 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 |