

## Sequencing Reaction Clean-Up Kit

Norgen's Sequencing Reaction Clean-Up Kit provides a rapid, simple and efficient procedure for the purification and clean-up of sequencing and various other enzymatic reactions including restriction enzyme digests, Klenow reactions, alkaline phosphatase reactions, and ligations. The kit is used to remove reaction contaminants including dye terminators, salts, enzymes, excess primers and primer dimers. Contaminants are undesirable as they can interfere with many downstream applications including sequencing, RFLP, restriction enzyme digestions and ligation. Purification is based on spin-



column chromatography without the use of phenol, chloroform or alcohol precipitation. The kit provides a high quality product with up to 90% recovery. Purification is based on spin column chromatography. The sequencing extension product or other enzymatic reaction products are preferentially purified from contaminants such as salt, enzymes and dye terminators without the use of phenol or chloroform.

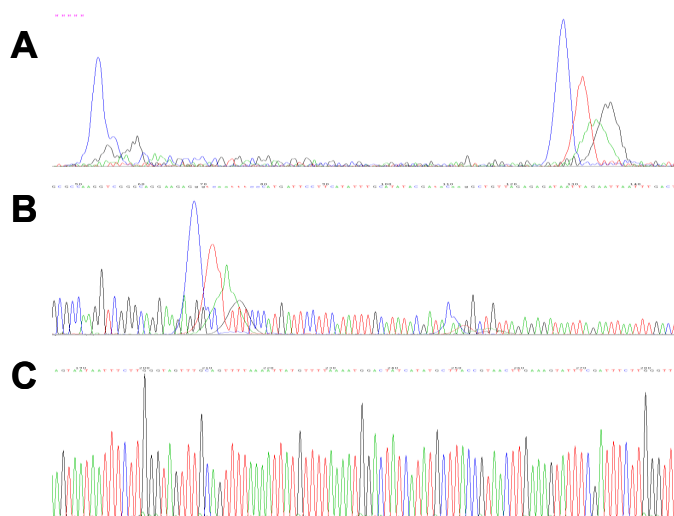
Kit Specifications - Spin Column			
Average Recovery	Up to 90%	Column Binding Capacity	13 µg
Minimum Elution Volume	30 µL	Time to Complete 10 Purifications	10 minutes

Kit Specifications - 96-Well Plate			
Average Recovery	Up to 90%	Binding Capacity per Well	15 µg
Minimum Elution Volume	50 µL	Time to Complete 96 Purifications	20 minutes

### Sequencing Reaction Clean-Up Kit Benefits

Fast and easy processing	Rapid spin column format allows for the processing of 10 samples in 10 minutes. Process 96 samples in 20 minutes.
Purification from all sequencing by-products	Remove all dye terminators, primer-dimers, primers, enzymes and salts.
Purification of all types of enzymatic reactions	Purify DNA from different enzymatic reactions including restriction enzyme digests, Klenow reactions, alkaline phosphatase reactions, and ligations.
High recovery	Recovery of up to 90% of input amounts
Complete column purification	The extension product or enzymatic reaction is column cleaned without the use of phenol, chloroform or alcohol precipitation.
High integrity product	The cleaned extension product or enzymatic reaction is ready to be used in various downstream applications.
High-throughput purification available	The kit is also available in a 96-well format for high-throughput sequencing reaction clean-up.

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**Figure 1. Sequencing Chromatogram of pDC-CG DNA.** A single extension product was divided into 3 equal aliquots and was cleaned using either Norgen's Sequencing Reaction Clean-Up Kit, or one of two competitor kits. Sequencing data was then generated using BigDye Terminator chemistry on the Applied Biosystems 3130xL DNA Sequencer. Panel A corresponds to the results when the sample was cleaned using Competitor 1, and this chromatogram indicates low extension product yields. Panel B corresponds to the result when the sample was cleaned using Competitor 2, and this product exhibited poor dye terminator removal that introduced several blobs to the sequence. Panel C corresponds to the sample cleaned with Norgen's Sequencing Reaction Clean-Up Kit, and shows good yield and efficient removal of dye terminator and contaminants as indicated from the chromatogram signals.

### Sequencing Reaction Clean-Up 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

### 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.

### Sequencing Reaction Clean-Up 96-Well Kit Contents:

1. Binding Buffer C
2. Wash Solution A
3. Elution Buffer B
4. 96-Well Plate
5. Adhesive Tape
6. 96-Well Collection Plate
7. 96-Well Elution Plate
8. Product Insert

### Shipping Conditions

The Sequencing Reaction Clean-Up Kit is shipped at room temperature.

Cat #	Description	Quantity
34500	Sequencing Reaction Clean-Up Kit	50 preps
34400	Sequencing Reaction Clean-Up 96-Well Kit	2 x 96 well plates