

ZR DNA Sequencing Clean-up Kit™

Simplest, Most Reliable Method for Dye-Terminator Removal From DNA!



- Simple 2 Minute Bind, Wash, Elute Procedure.
- Flexible 6-20 µl elution volumes allow for direct loading of samples with no precipitation or drying steps.
- Complete elimination of “dye blobs” with high quality Phred scores and long read lengths.
- Reusable spin columns and 96-well filtration plates that support both gel and capillary electrophoresis platforms.

The **ZR DNA Sequencing Clean-up Kit™** provides a simple method for the rapid removal of post-cycle sequencing reaction contaminants (i.e., unincorporated fluorescent dyes, residual salts, dNTPs, primers, and enzymes) from DNA extension products. These contaminants, can often interfere with the quality and signal strength of sequencing data. In particular, unincorporated dyes can result in dye peaks (“dye blobs”) which may obscure portions of the sequencing chromatogram and interfere with the base-calling accuracy of sequencing analysis software.

The **ZR DNA Sequencing Clean-up Kit™** features a single-buffer system that allows for efficient DNA adsorption onto the matrix of the supplied spin column or filtration plate. The DNA is washed then eluted with a small volume of water or loading dye containing formamide. The entire DNA purification procedure typically takes about 2 minutes.

DNA Sample
+ Sequencing Binding Buffer

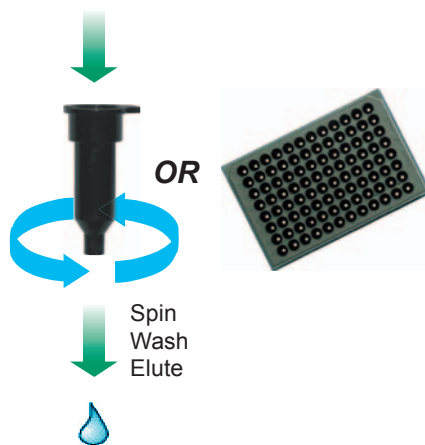


Diagram of the ZR Sequencing Clean-up procedure.

Comparative Overview (Single Column Format)

	ZR DNA Sequencing Clean-up Kit™	Competitor PS	EtOH Precipitation
Processing Time	2 min.	> 40 min.	> 45 min.
Ready-to-Use Format	Yes	No	No
Avg. Cost per prep.	\$1.64 (reusable)	\$2.50	-
96-well Format	Yes	Yes	Yes
Reusable	Yes	No	No



ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

Toll-Free 1-888-882-9682
 Main 1-714-288-9682
 Fax 1-714-288-9643
 Email info@zymoresearch.com
 Web www.zymoresearch.com

ZR DNA Sequencing Clean-up Kit™

ZR DNA Sequencing Clean-up Kit™ Short Protocol (Spin Column)

1. Add 240 µl **Sequencing Binding Buffer** to 5-20 µl sequencing reaction.
2. Transfer mixture to a provided **Zymo-Spin™ IB Column** in a **Collection Tube**.
3. Centrifuge at 13,000 rpm (15,000 - 16,000 x g) for 30 seconds.
4. Add 300 µl **Sequencing Wash Buffer** to the column. Centrifuge at 13,000 rpm (15,000 - 16,000 x g) for 30 seconds.
5. Add 6-20 µl water directly to the column matrix. Transfer the column to a 1.5 ml microcentrifuge tube and centrifuge at 13,000 rpm (15,000 - 16,000 x g) for 30 seconds to elute the DNA.

Ultra-pure DNA is now ready to be loaded directly into the sequencer.

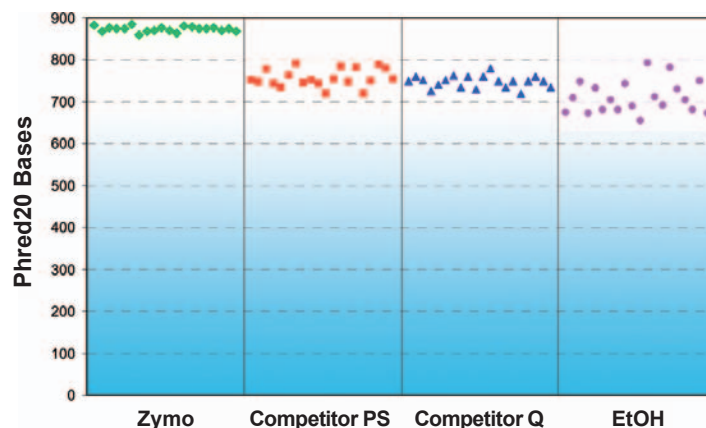


Figure 1. Phred20 scores obtained with the **ZR DNA Sequencing Clean-up Kit™** are consistently higher than those obtained with Competitors PS and Q and ethanol precipitation procedures. DNA samples were labeled using the BigDye Terminator Cycle Sequencing Kit then sequenced using an ABI 3730xl DNA Analyzer.

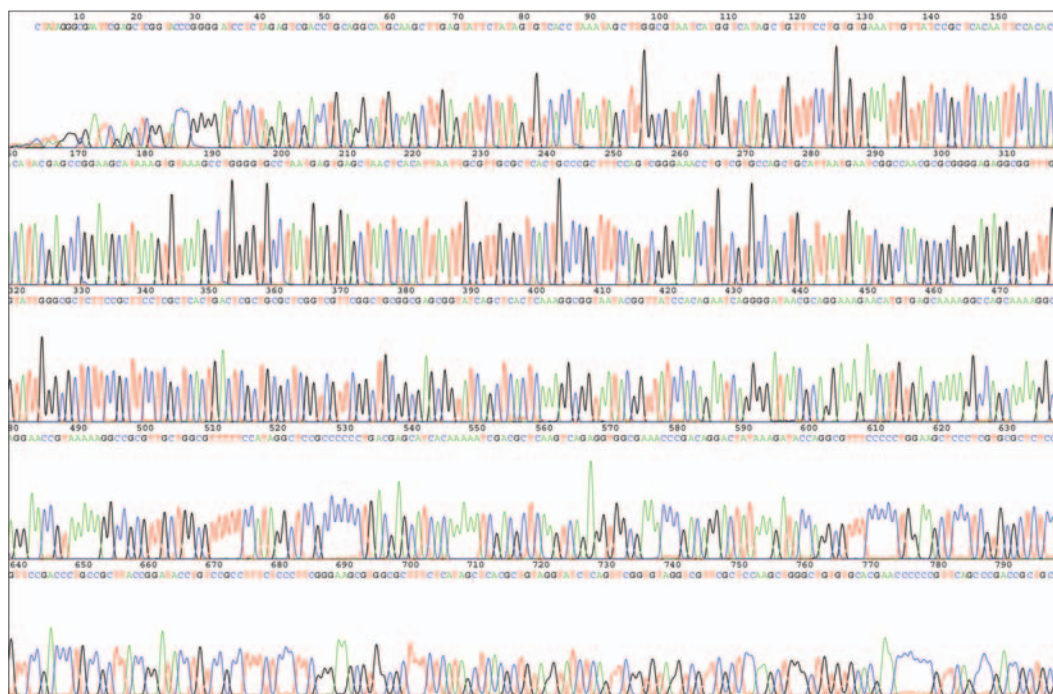


Figure 2. Sequencing chromatogram of pGEM® DNA generated using an ABI 3730xl DNA analyzer. DNA was labeled with ABI BigDye v3.1 Terminators and cleaned using the **ZR DNA Sequencing Clean-up Kit™**.

Ordering Information

Product Description	Catalog No.	Quantity
ZR DNA Sequencing Clean-up Kit™	D4050	50 preps.
	D4051	200 preps.
ZR-96 DNA Sequencing Clean-up Kit™	D4052	2x96 preps.
	D4053	4x96 preps.