

E.Z.N.A.® Cycle Pure Kit (V-spin)



Specifications

For Research Use Only. Not for use in diagnostic procedures.

Features	Specifications
Downstream application	Cloning, Sanger Sequencing, In Vitro Transcription, Nucleic Acid Labeling, PCR, Real-Time Quantitative PCR (qPCR), Southern Blotting
Elution Volume	30-50 µL
Starting material	PCR reaction
Starting amount	5-50 µL enzymatic reactions
DNA recovered	> 90% recovery, 70 bp to 20 kb
Processing mode	Manual, centrifugation/vacuum
Throughput	1-24
DNA binding technology	Silica mini spin column
Binding capacity	25 µg
Processing time	< 10 minutes

Overview

The E.Z.N.A.® Cycle-Pure Kit is designed for the rapid purification of single or double-stranded DNA from PCR or other enzymatic reactions. The purification procedure completely removes primers, nucleotides enzymes, salts, and other impurities from DNA sample. The DNA sample is simply mixed with buffer and spun through the HiBind DNA column. The DNA bound to the HiBind Matrix is washed and the clean concentrated DNA is eluted with deionized water or elution buffer. This convenient spin-column format eliminates the need for expensive resins or toxic organic compounds such as phenol and chloroform, thereby making it possible to process multiple samples in parallel. Purified DNA can be used in T-A ligations, sequencing, restriction enzyme digestion, and various other labeling reactions.

Product Data

Performance of E.Z.N.A.® Cycle Pure Kit on 500 bp and 5 kb DNA fragments

- Rapid - Purification of PCR products in 10 minutes
- Convenient - No Phenol/chloroform extractions
- Versatile - Spin and vacuum formats available
- High-quality - DNA is suitable for downstream applications

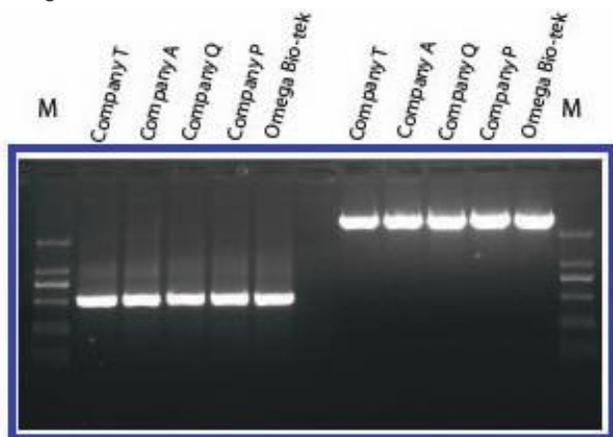


Figure 1. 500 bp and 5 kb DNA fragments were cleaned up with products from Company T, Company A, Company P, Company Q and Omega Bio-tek following manufacturer's recommended protocols. DNA was analyzed on a 0.8% agarose gel.

Sanger Sequencing of PCR Products

Sample	Contiguous Read Length	Average Signal Intensity
1	446	4583
2	446	4543.25
3	472	2768
4	445	3748.25
5	446	4397.25
6	446	4205
7	473	3329.50
8	454	2562.25

Figure 2. 500 bp amplicon was purified with the E.Z.N.A. Cycle Pure Kit was used in a 5 µL Sanger sequencing reaction. DNA was analyzed on an Applied Biosystem 3730XL.

Cat. No.	Description	UOM
ES52373-5	Cycle Pure Kit (V-Spin) , 5 preps	Each
ES52373-50	Cycle Pure Kit (V-Spin), 50 preps	Each
ES52373-200	Cycle Pure Kit (V-Spin), 200 preps	Each