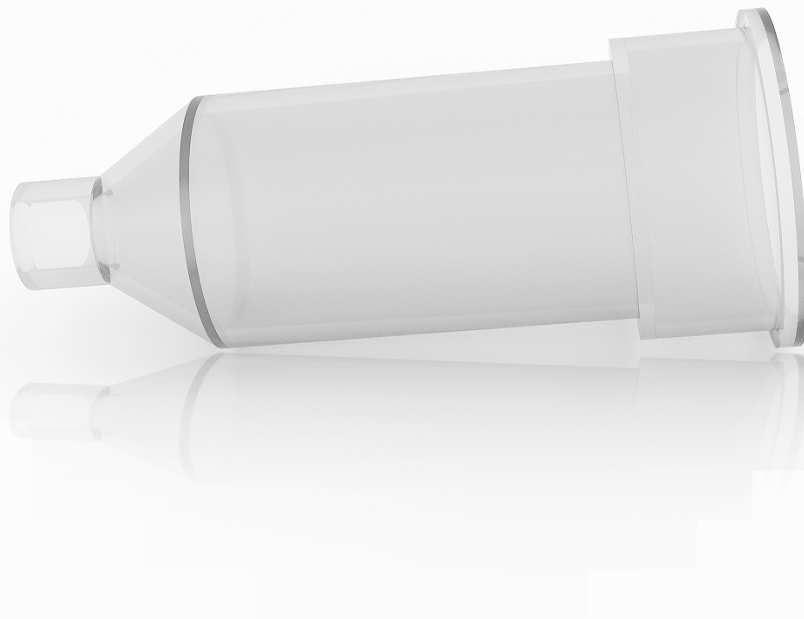


# Zymo-Spin™ Technology



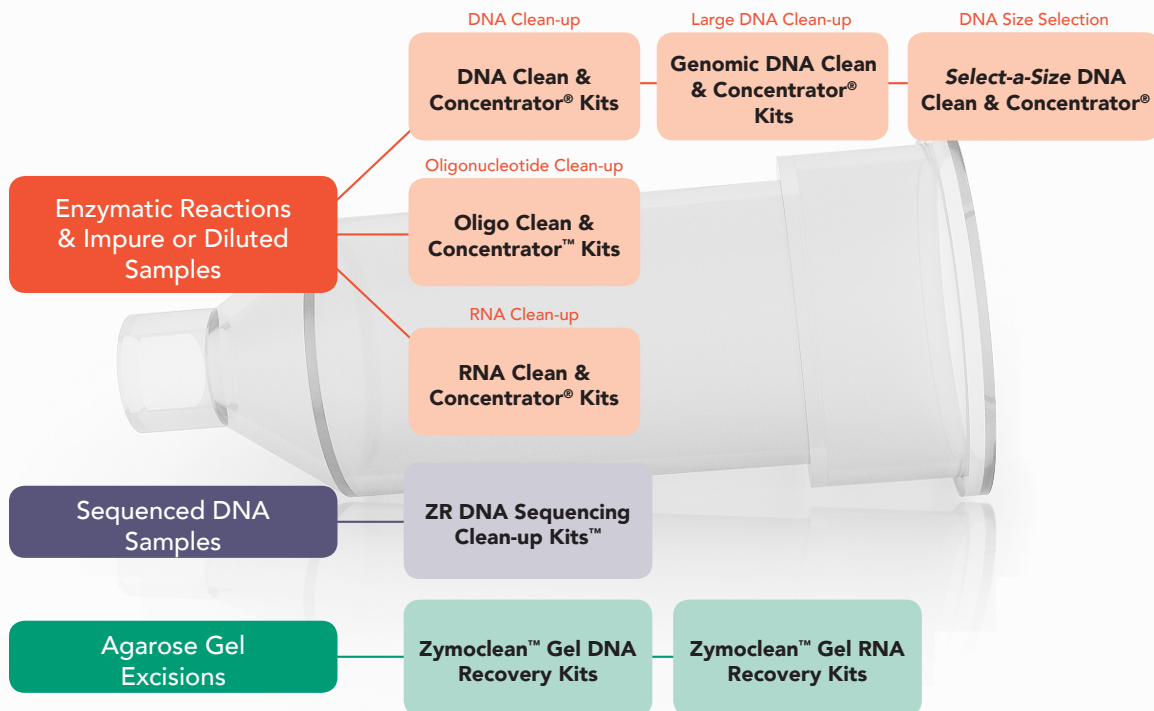
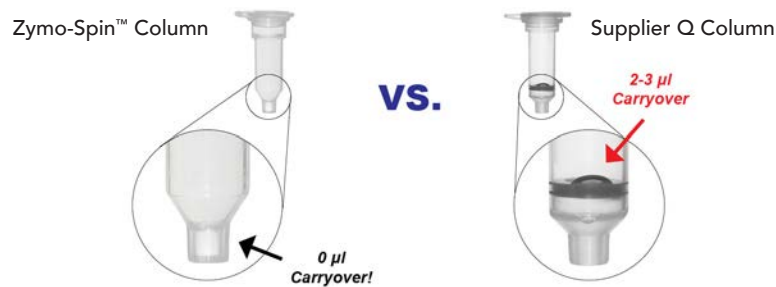
The microcentrifuge  
column that **revolutionized**  
nucleic acid clean-up

# Overview

## A Comprehensive Solution for DNA and RNA Clean-Up

High-quality, inhibitor-free DNA and RNA is crucial for successful (rt)PCR, DNA ligation/cloning, sequencing, arrays, and all sensitive downstream applications. Our scientists have developed the most comprehensive technologies for nucleic acid clean-up and concentration from any preparation. Central to the innovation of these is the total removal of salts and alcohols from samples with uniquely designed spin-columns and plates that ensure complete elution with no buffer carryover. Zymo-Spin™ Technology has revolutionized the microcentrifuge column to ensure the purification of high-quality, ultra-pure DNA or RNA ready for use in any downstream application.

### Zymo-Spin™ Technology Ensures High-quality DNA or RNA



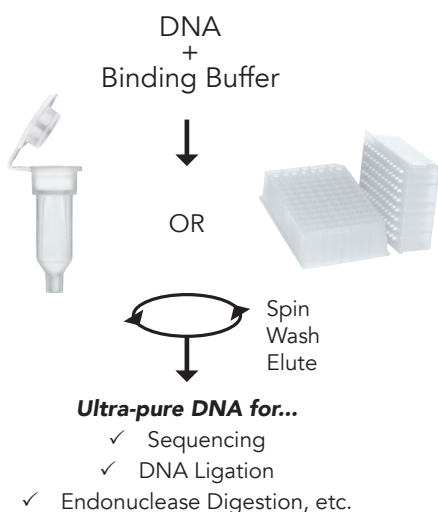
Learn more at [www.zymoresearch.com/zymo-spin](http://www.zymoresearch.com/zymo-spin)

# DNA Clean & Concentrator® Kits

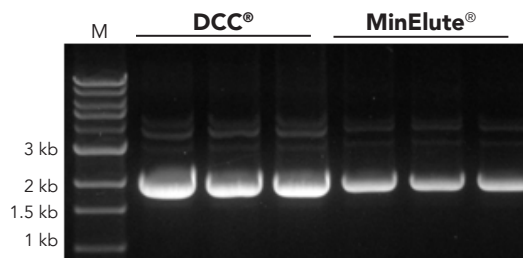
## Highlights

- Clean and concentrate DNA with  $\geq 6 \mu\text{l}$  elution volume in as little as two minutes with 0  $\mu\text{l}$  wash residue carryover.
- Column and deep-well filtration plate designs allow DNA to be eluted at high concentrations into minimal volumes of water or TE buffer.
- Eluted DNA is optimal for any down stream molecular biology application, such as DNA ligation, sequencing, labeling, PCR, etc.

### Simple, Innovative Workflow

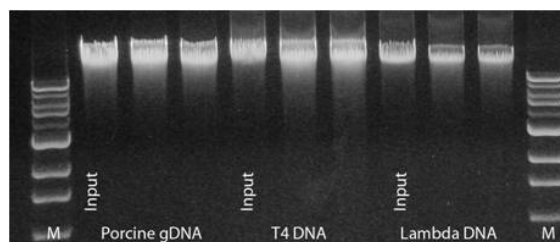


### Recover Ultra-pure, High-quality DNA with the DNA Clean & Concentrator®-5 Kits



**High efficiency DNA recovery using the DCC®-5.** Equivalent amounts of DNA were purified using the DCC®-5 or MinElute® Kit and analyzed by electrophoresis in a 0.8% (w/v) agarose/TAE/EtBr gel.

### Improved Recovery of Large DNA with the Genomic DNA Clean & Concentrator® Kits



**High molecular weight DNA is efficiently purified using the Genomic DNA Clean & Concentrator®-10.** Porcine gDNA (~35-50 kb), T4 phage DNA (170 kb), and lambda ( $\lambda$ ) phage DNA (48.5 kb) were purified (in duplicate) from input material using the Genomic DCC®. Eluted DNAs were analyzed in a 0.8% (w/v) TAE/agarose/EtBr gel. The size marker "M" is a 1 kb ladder (Zymo Research).

Product	Cat. No.	Size
DNA Clean & Concentrator® -5 (uncapped columns)	D4003	50 preps.
	D4003T	10 preps.
	D4004	200 preps.
DNA Clean & Concentrator® -25 (uncapped columns)	D4005	50 preps.
	D4006	200 preps.
ZR-96 DNA Clean & Concentrator®-5	D4023	2 x 96 preps.
	D4024	4 x 96 preps.
Genomic DNA Clean & Concentrator®-10	D4010	25 preps.
	D4011	100 preps.
Genomic DNA Clean & Concentrator®-25	D4064	25 preps.
	D4065	100 preps.
ZR-96 Genomic DNA Clean & Concentrator®-5	D4066	2 x 96 preps.
	D4067	4 x 96 preps.

Other formats available

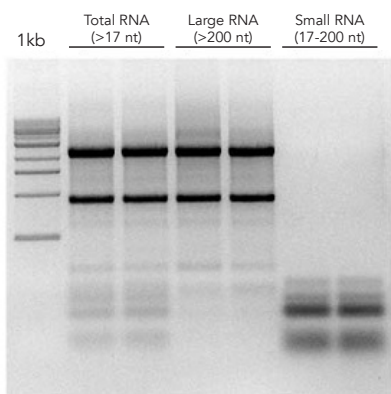
Learn more and view additional formats at [www.zymoresearch.com/zymo-spin](http://www.zymoresearch.com/zymo-spin)

# RNA Clean & Concentrator<sup>®</sup> Kits

## Highlights

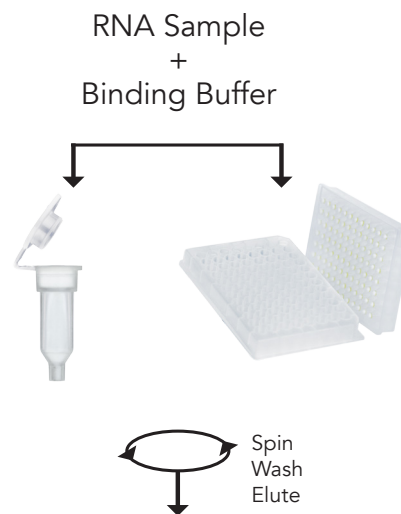
- Quick methods for cleaning and concentrating RNA.
- Zymo-Spin<sup>™</sup> technology allows for minimal elution volumes.
- Ideal for purification of RNA from aqueous phase following acid phenol extraction.

### Recover High-quality RNA



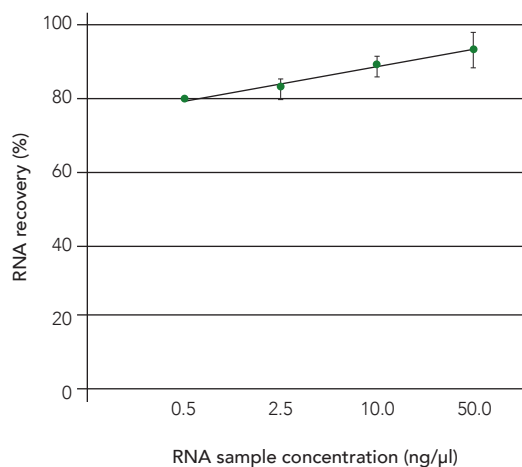
**Purification of small and large RNAs into separate fractions.** RNA Clean & Concentrator<sup>™</sup> allows for purification of total RNA (> 17 nt), large RNAs (> 200 nt), and/or small RNAs (17-200 nt).

### Simple, Innovative Workflow



**Ultra-pure RNA for...**  
 ✓RT-PCR   ✓Sequencing  
 ✓Hybridization   ✓RNA Interference

### Concentrated & Ready for Use



**Concentration of diluted RNA samples.** RNA was eluted with 20 μl RNase-free water (n = 3, total input = 1 μg RNA).

Learn more and view additional formats at  
[www.zymoresearch.com/zymo-spin](http://www.zymoresearch.com/zymo-spin)

Product	Cat. No.	Size
RNA Clean & Concentrator <sup>™</sup> -5	R1015, R1013*	50 preps.
	R1016, R1014*	200 preps.
ZR-96 RNA Clean & Concentrator <sup>™</sup> -5	R1080	2 x 96 preps.
RNA Clean & Concentrator <sup>™</sup> -25	R1017	50 preps.
	R1018	100 preps.

Other formats available  
 \*Supplied with DNase I

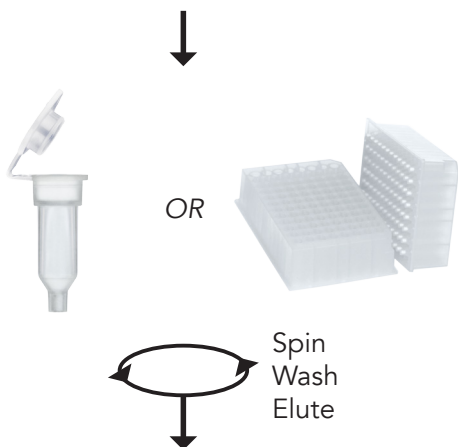
# Zymoclean™ Gel Recovery Kits

## Highlights

- Quick recovery of ultra-pure DNA or RNA from agarose gels.
- Column design permits elution at high concentrations into minimal volumes ( $\geq 6 \mu\text{l}$ ).
- Eluted nucleic acid is suitable for use in all sensitive downstream applications, such as DNA ligation, sequencing, labeling, PCR, etc.

## Simple, Innovative Workflow

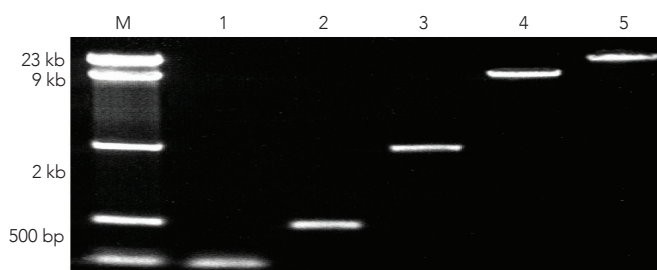
DNA or RNA in Agarose Gel Slices  
+  
Agarose Dissolving Buffer



### Ultra-pure DNA or RNA for...

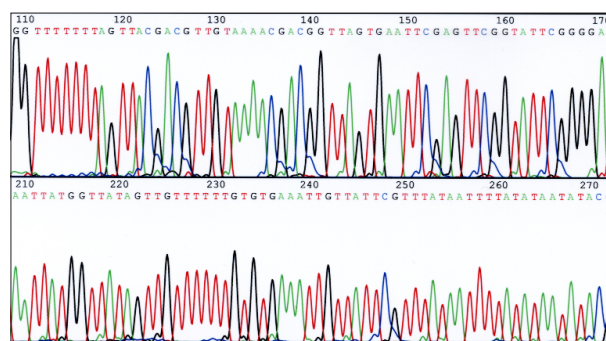
- ✓ Sequencing
- ✓ DNA Ligation
- ✓ Endonuclease Digestion, etc.

## Boost Recoveries from Agarose Gels to > 80%



DNA fragments recovered from an agarose gel using the Zymoclean™ Gel DNA Recovery Kit. Lanes: M: DNA Ladder; 1-5: individual ladder DNA fragments.

## DNA or RNA is Well-suited for Sensitive Applications



DNA sequencing chromatogram of a PCR product recovered using the Zymoclean™ Gel DNA Recovery Kit. DNA was recovered from a 2% (w/v) agarose gel and used directly for sequencing.

Product	Cat. No.	Size
Zymoclean™ Gel DNA Recovery Kit (uncapped columns)	D4001	50 preps.
	D4001T	10 preps.
	D4002	200 preps.
Zymoclean™ Gel DNA Recovery Kit (capped columns)	D4007	50 preps.
	D4008	200 preps.
Zymoclean™ Gel RNA Recovery Kit	R1011	50 preps.
Zymoclean™ Large Fragment DNA Recovery Kit	D4045	25 preps.
	D4046	100 preps.

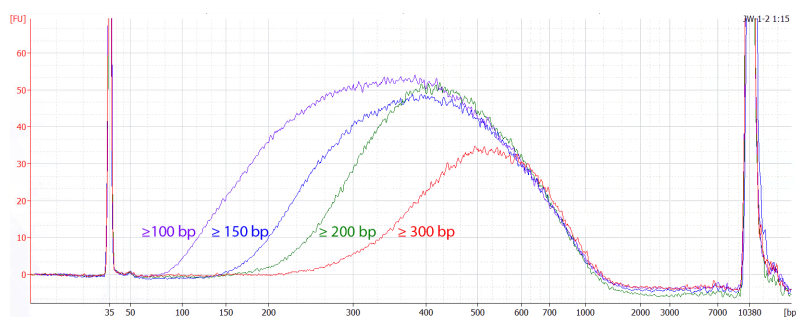
Learn more and view additional formats at  
[www.zymoresearch.com/zymo-spin](http://www.zymoresearch.com/zymo-spin)

# Select-a-Size DNA Clean & Concentrator<sup>®</sup> Kit

## Highlights

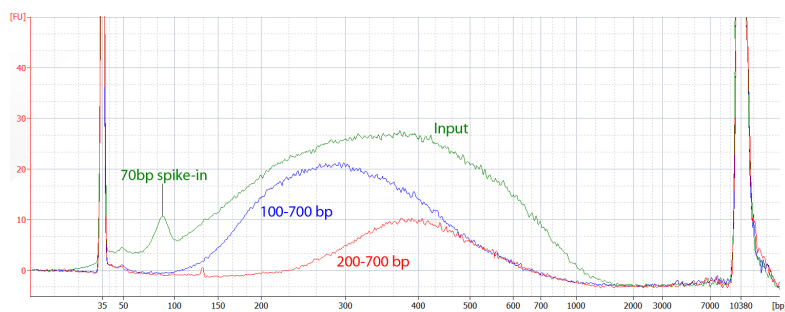
- Quick (7 minute) protocol to select for  $\geq 300$  bp,  $\geq 200$  bp,  $\geq 150$  bp,  $\geq 100$  bp,  $\geq 50$  bp DNA fragments or perform a double size selection.
- Clean and concentrate DNA from enzymatic reactions in as little as 10  $\mu$ l of DNA/RNA Free water.
- Eluted DNA is suitable for use in Next-Generation sequencing, PCR, DNA ligation, endonuclease digestion, RT-PCR, etc.

## DNA Size Selection using a Spin Column



**Select-a-Size DNA Clean & Concentrator<sup>®</sup> allows for selection at  $\geq 300$  bp,  $\geq 200$  bp,  $\geq 150$  bp,  $\geq 100$  bp and  $\geq 50$  bp.** DNA was size selected according to the *Select-a-Size* DNA Clean and Concentrator<sup>®</sup> protocol and the results were analyzed by Bioanalyzer. 700 ng of sonicated salmon sperm DNA was used as a standard input to evaluate size selection efficiency and cutoff. Eluted DNA was diluted 1:20 prior to being loaded on the High Sensitivity DNA Chip for analysis.

## Simple Procedure for Double Size Selection



**Select-a-Size DNA Clean & Concentrator<sup>®</sup> can be used for double size selection of samples in ranges from 50-700 bp, 100-700 bp, 150-700 bp, and 200-700 bp.** The desired DNA range was selected according to the *Select-a-Size* DNA Clean and Concentrator<sup>®</sup> protocol and the results were analyzed by Bioanalyzer. 700 ng of sonicated salmon sperm DNA, and a 70 bp amplicon was used as a standard input to evaluate size selection efficiency and cutoff. Eluted DNA was diluted 1:20 before loading onto the Bioanalyzer High Sensitivity DNA Chip for analysis.

Learn more and view additional formats at  
[www.zymoresearch.com/zymo-spin](http://www.zymoresearch.com/zymo-spin)

### Product

Select-a-Size DNA Clean & Concentrator<sup>®</sup>

### Cat. No.

D4080

### Size

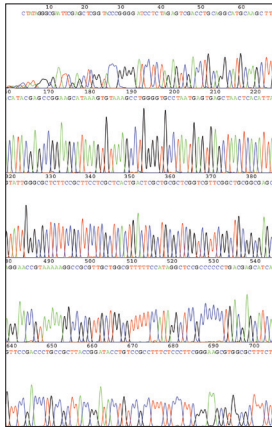
25 preps.

# ZR DNA Sequencing Clean-up Kits™

## Highlights

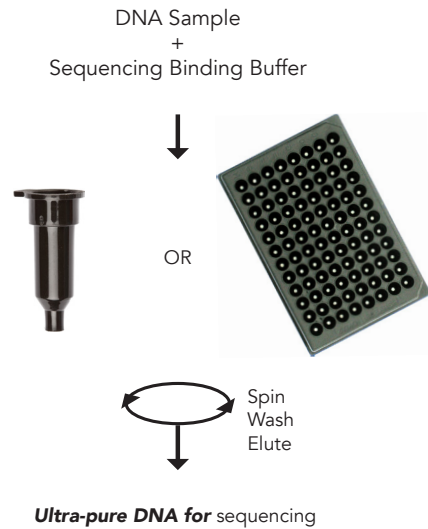
- Complete elimination of “dye blobs” for high-quality Phred scores and long read lengths.
- Flexible 6 - 20 µl elution volumes allow for direct loading of samples with no precipitation or drying steps.
- Reusable Columns!

### Ultra-pure DNA without “Dye Blobs”



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™.

### Simple, Innovative Workflow

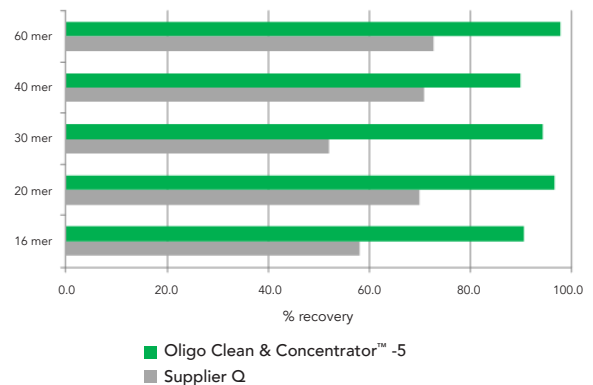


# Oligo Clean & Concentrator® Kits

## Highlights

- Quick (2 minute) recovery of ultra-pure DNA and RNA oligonucleotides.
- Complete removal of dyes, salts, enzymes, nucleotides, and short oligos.
- Eluted DNA/RNA is suitable for use in hybridization, sequencing, PCR, ligation, etc.

### Improved Recovery of Oligonucleotides



Learn more and view additional formats at [www.zymoresearch.com/zymo-spin](http://www.zymoresearch.com/zymo-spin)

Product	Cat. No.	Size
ZR DNA Sequencing Clean-Up Kits™	D4050	50 preps.
	D4051	200 preps.
ZR-96 DNA Sequencing Clean-Up Kits™	D4052	2 x 96 preps.
	D4053	4 x 96 preps.
Oligo Clean & Concentrator™	D4060	50 preps.
	D4061	200 preps.
ZR-96 Oligo Clean & Concentrator™	D4062	2 x 96 preps.
	D4063	4 x 96 preps.

# Innovation. Pure & Simple.™



Since its inception in 1994, Zymo Research has been proudly serving the scientific community by providing innovative, reliable, and high quality research tools at affordable prices. Our vision... "The Beauty of Science is to Make Things Simple" is now truer than ever. Whether it's epigenetics, DNA, RNA, *E. coli*, or yeast based research, our philosophy remains the same: To provide the highest quality products in the industry while ensuring they are both simple to use and reliable in their performance.

Zymo Research stands on three pillars which form the foundation of our company: Innovation, Quality, and Customer Service. These pillars are fundamental to our culture and ensure our products meet your needs.

## Innovation

Zymo Research is historically recognized for its innovation of high quality nucleic acid purification technologies. Under the branding DNA Purification Made Simple® and RNA Purification Made Simple®, our technologies are pushing the limits of what is possible with nucleic acid isolation. As The Epigenetics Company™, Zymo Research has also received much attention for its rapidly expanding portfolio of epigenetics products and services. It is our objective to develop and provide the most comprehensive set of tools for DNA, RNA, and epigenetic research and analysis available today. Thousands of peer-reviewed scientific publications from researchers around the world feature our technologies. Through innovation, our scientists have made streamlined DNA methylation detection possible, pioneered the micro-elution column for DNA and RNA purification, developed the simplest and the most sophisticated methods for high-quality plasmid DNA purification, and patented the first RNA purification directly from Trizol® without phase separation among many other leading technologies in the industry.

## Quality

We are committed to quality and guarantee that all of our products and service will meet and exceed your expectations. Our products are constantly evaluated by scientists like you to help ensure their reliability and the highest standard of quality.

## Customer Service

We strive for excellence in how we support your scientific endeavors. We pledge to be honest and responsible for everything we do with you. We will treat you as we would like to be treated. Together, we will build a brighter future.

Cat. No. B1004 Version 01