



Enzymax LLC, 3070 Lake Crest Cir., Suite 400/122; Web: [www.enzymax.net](http://www.enzymax.net); Tel: 859-219-8482; Fax: 859-887-9135

## DNA and RNA Tini Spin Columns (Advanced Design)

DNA/RNA Isolation Kits with Tini spin columns (elution volume can be as low as 5µl)

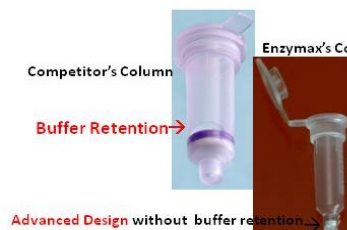
Cat. #	Description	Quantity	
EZC106N	DNA Tini spin column	50 ea	
600	Plasmid DNA Tini-prep kit from single colony	50 preps	
601	Genomic DNA isolation kit (for tissues, cells, LCM samples, mouse tail, mouth swab etc.)	50 preps	
602	DNA cleanup and concentration kit (for ChIP assay, post enzymatic reactions etc.)	50 preps	
603	PCR cleanup kit with primer removal (>100bp)	50 preps	
604	Gel extraction kit (with Tini Column)	50 preps	
EZC107	RNA Tini spin column (can be used for RNA isolation from Single Cell)	50 ea	
700	RNA micro Kit (RNA>200nt) from <b>Single Cell</b> or small number of Primary/Cultured cells, Tissues and LCM samples	50 preps	
701	miRNA micro Kit (including miRNA>17nt & large RNA) from <b>Single Cell</b> or small number of Primary/Cultured cells,, Tissues and LCM samples (with Tini spin Column)	50 preps	
EZCR302	RNA Kit for recovering both RNA >200nt and miRNA (>17nt) separately from Animal/Human cells & Animal Tissues (with EZshredder column+Tini RNA Columns)	50 preps	
704 <b>NEW</b>	<b>Column-zol</b> Total RNA micro kit w/ Tini column: Combined the advantages of chemical method with column method for isolation of high quality total RNA(>17bp)-RT ready without DNase treatment	50	

### Description:

DNA and RNA Tini Spin columns are designed to recover and concentrate small amount of DNA and RNA from Laser capture microdissection (LCM),  $10^1$ - $10^5$  small number of primary/cultured cells, saliva, single colony (E.coli), small tissue samples, or mouse tails, as well as for DNA clean-up and concentration from ChIP Assay, gel, PCR or enzyme reactions. The advanced design of the Tini Spin columns has eliminated problems associated with dead volume and buffer retention, resulting in increased DNA/RNA recovery and purity, as well as minimizing the elution volume to as low as 5 µl. All the solutions used for Tini Spin columns are compatible with those for Mini Spin columns, but only use 1/3 or 1/10 volume of each solution for Mini Spin columns.

## DNA and RNA Tini Spin Column

### DNA and RNA Tini Spin Column



#### HIGHLIGHTS:

- No buffer retention
- 100% recovery rates for DNA or RNA
- Small elution volumes as low as 5µl  
(can be used as DNA or RNA concentrator)
- Recover from 10ng to 20ug of DNA or RNA  
\*DNA nano-prep directly from **single colony**.
- \*RNA prep from **LCM** samples, 10-10s cells, and other small tissue samples.
- Recover DNA/RNA from 17bp oligo or micro RNA to 140kb genomic DNA
- Compatible with regular mini-spin columns and solutions from most manufacturer but only use 1/3 or 1/10 of each solution

#### Tini Spin Column (EZC106N) in collection



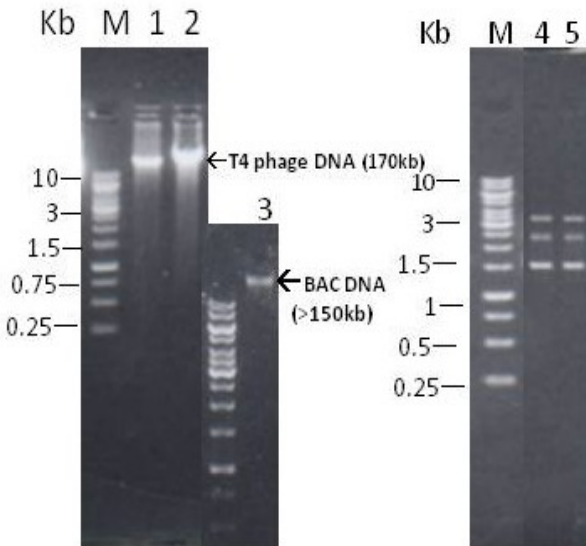
Enzymax LLC: [www.enzymax.net](http://www.enzymax.net) (Tel:859-2198-482)

### Highlights

- **NO** buffer retention , **NO** dead volume
- **HIGH** recovery rate, **High** quality, **FAST** and **EASY** with 2 minute procedure.
- **SMALL** loading and elution volume (**5µl**): Can be used for DNA/RNA nano-prep from single cell or single colony

- **Broad range** recovery of DNA/RNA from short oligo/micro RNA of **17bp to 140kb** DNA by using different binding buffer and protocols
- **Compatible** with most manufacturers' RNA or DNA Kit Reagents

### Bench Protocol for DNA Tini-prep From Single Colony



### Enzymax DNA/RNA Tini spin Column

- Can be used for high molecular weight genomic DNA preparation and clean up. See Lane 1-3
- \*DNA recovery is nearly 100%:
- Lane 4: 50ng DNA before column purification
- Lane 5: 50ng DNA after column purification



### Applications:

- Concentrator (to the volume as little as 5 $\mu$ l): Oligo (>17bp), DNA, genomic DNA (<140kb), RNA, and micro RNA
- ChIP DNA clean-up and concentration (fast and efficient with high recovery in just 10 minutes).
- RNA isolation from Single cell or LCM (laser capture microdissection) samples.
- Prepare nanogram to milligram amount of DNA or RNA from saliva, plasma, serum, whole blood, tissue samples (such as mouse tails), virus, bacterial, plants, or others sources.
- DNA/RNA nano-prep directly from **Single Cell or single Colony** (>2mm diameter) on plate after E.coli transformation without growing 2ml overnight culture.
- DNA/RNA gel extraction
- Clean up DNA and RNA from PCR products, enzymatic reactions, labeling, sequencing reactions
- Micro RNA (Small RNA) preparation and clean up

### Specifications:

- Membrane technology for DNA/RNA size: 17nt to 140kb
- Used with microcentrifuge or vacuum manifold
- Come with capped 1.5ml collection tubes
- Elution volume: as low as 5  $\mu$ l
- Column capacity: 400  $\mu$ l
- Binding capacity: 10ng-20 $\mu$ g
- Collection tube capacity: 1.5ml