ENZYMAX LLC

870 Corporate Dr., Suite 201, Lexington, KY 40503, USA; Web: www.enzymax.net; Tel: 859-219-8482; Fax: 859-219-0653

Product Information

		Related products:	Catalog No.
Product Name:	**RNA Cleanup and Concentration Kit**	RNA mini-spin columns	EZCR101
Catalog No:	**702**	RNA Tini-spin columns	EZC107
Size:	**50 preps**		

Feature:

- Easy and rapid with 10 min. procedure using RNA Tini spin column.
- Nearly 100% RNA recovery
- Cleanup RNA from mini prep and after enzymatic reactions
- Concentrate RNA to as low as 5µl volume
- Remove Salt, primers, enzymes and other impurities

Kit Contents:

Components	RNA Cleanup and Concentration (Cat#702)
RLT Solution*:	14ml
RW Solution:	12ml
RPE Solution**:	5ml (add 20ml 100% ethanol to the bottle before use)
RNase-free water	1.5ml
Tini spin column with collection tube	50 sets

*RLT Solution contains chaotropic salt. Harmful by inhalation, in contact with skin and if swallowed (Risk and Safety phrases: R20/21/22-32, S13-26-36-46)

****Add 100% ethanol before use:** add 20ml 100% ethanol to 5ml RPE Solution.

Storage: Store all Buffers at 4°C for up to 2 years.

Note: In general, DNase digestion is not required since the RNeasy silica-membrane technology efficiently removes most of the DNA without DNase treatment. However, further DNA removal may be necessary for certain RNA applications that are sensitive to very small amounts of DNA (e.g., TaqMan RT-PCR analysis with a low-abundant target). DNA can be removed by a DNase digestion following RNA isolation.

Protocol:

1. Adjust sample to a volume of 50µl with RNase-free H_2O, add 175µl of RLT Solution, and mix well. Add 130µl of 100% ethanol, mix gently. A precipitate may form by adding ethanol, but this will not affect the procedure.
   Note: for clean-up micro RNA (17nt-200nt), add more ethanol to 60% final concentration, eg: 50µl RNA sample+175µl RLT solution+350µl 100% ethanol. Precipitate may form after adding ethanol, but this will not affect the procedure. Do not load more than 400µl of sample on Tini spin column at one time. Discard the flow-through and load more sample mixture if needed.

2. Place a Tini Spin Column in 1.5ml Collection Tube and transfer the mixture (Step 1) to the column and spin at full speed ~10,000 rpm (12,000 x g) for 1 minute, discard flow-through.

3. Add 200µl of RW Solution to the column and spin at ~10,000 rpm (12,000 x g) for 1 minute to remove small RNA (<200 nt). (**Skip this step if you want to recover micro RNA**)

4. Add 200µl of RPE Solution to the column and spin at ~10,000 rpm (12,000 x g) for 1 minute, discard the flow-through and spin once more to completely remove the residue of RPE Solution.
   Important: residual ethanol from RPE Solution may affect downstream applications.

5. Add 5-20µl of RNase-free H_2O onto the center of the column membrane and centrifuge at 10,000 rpm for 1 minute. Keep RNA sample at -70℃.