LAMDA
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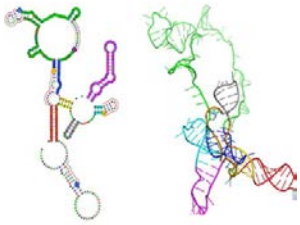
Column-Pure™
RNA Cleaning-Concentrator

Cat. No. D703



456A Sovereign Ct.
St. Louis, MO 63011
Tel: 1-800-631-5009
Fax: 1-800-747-5609

E-mail: Orders@LamdaBio.com

www.Lamdabio.com

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Catalog No.: D703

Product Name: Column-Pure™ RNA Cleaning-Concentrator

Size: **50 preps**

Description: This Column-Pure™ RNA Cleaning-Concentrator Kit is designed for rapid cleaning and/or concentration of RNA samples from *in vitro* transcription or total RNA isolated from various biological materials with different protocols such as DNase treatment of RNA samples.

Kit Contents:

Buffer RLT	50ml
Universal RPE Solution*	12ml
RNase-Free Water	5ml
Spin Column Set	50

*Before use, add **48 ml** of ethanol to the bottle containing 12 ml Universal RPE Solution.

Storage: Transported at room temperature. Upon receipt, store all components at 4°C. The kit is stable for up to 12 months at 4°C.

Features

- Recovery of RNAs larger than 20nt.
- No toxic organic chemicals used.
- Rapid and convenient, the whole procedure takes only 5 minutes.
- Rate of recovery higher than 80%.
- Compatible with most downstream applications.

NOTE: Care must be taken when working with RNA. It is important to maintain the RNase-free environment starting with RNA sample preparation and continuing through purification and analysis. Use RNase free tubes, tips, gels. Wear gloves at all times.

Starting Material: A maximum of 100µg RNA can be used in the RNA cleanup protocol. This amount corresponds to the binding capacity of the RNeasy mini columns.

This kit is for research use only.

Protocol

*Before use, add **48 ml** of ethanol to the bottle containing 12 ml Universal RPE Solution.

1. Estimate the starting RNA sample volume, add 9 volumes of **Buffer RLT** to the RNA sample, and mix thoroughly by pipetting a few times.

   Note: Do not centrifuge.

2. Add 1/2 volumes of ethanol to the above mixture, and mix again by inverting the tube.

3. Transfer 700µl of the sample mixture from last step to the Spin column set. Close the cap and centrifuge at 12,000 *rpm* for 30 seconds at room temperature, then discard the flow-through.

   Note: If the total volume exceeds 700µl, repeat this step until all sample mixture pass through the column.

4. Add 0.5ml **Universal RPE Solution** to the Spin column set, and centrifuge at 12,000*rpm* for 30 seconds at room temperature. Discard the liquid in the collection tube.

   Note: Universal RPE Solution is supplied as a concentration. Make sure ethanol is added to Universal RPE Solution before use.

5. Repeat Step 4 one more time.

6. Centrifuge at 10,000*rpm* for an additional one minute to remove any residual Universal RPE Solution.

   Note: It is important to have this extra spin to dry the column since any residual Universal RPE Solution may interfere with downstream reactions. Following centrifugation, remove column from the collection tube carefully to make sure no carryover of the Universal RPE Solution.

7. Transfer the Spin Column to a new RNase-free centrifuge tube; add 30-100µl RNase-free Water. Leave at room temperature for two minutes.

8. To elute, centrifuge the column at 12,000*rpm* for 1 minute. The cleaned RNA can be used immediately or store at -80ºC for future use.

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