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& Empirical bioscience	PIS-060 EB-TRK-Preps	Version: 002 Effective Date: 07/06/20 Author: Beth Lowe CO#: 062520-1

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Product Information Sheet Product Name: EB Pure Total RNA Kit *

Concentration: Not Applicable **Storage and Handling:**

Store at room temperature upon arrival. During shipment, crystals or precipitation may form on the TRK Buffer.

Dissolve by warming buffer to 37°C.

Ordering Information:

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	Item Number	Preparations	Number of Tubes and Volumes
	EB-TRK-50	50	EB-TRK DEPC Water: 1x10mL, EB-TRK RNA Wash Buffer I: 1x50mL, EB-TRK RNA Wash Buffer II: 1x12mL, EB-TRK TRK Lysis Buffer: 1x40mL, EB-TRK 2mL Collection Tubes: 100, EB-TRK RNA Mini Columns:50
	EB-TRK-200	200	EB-TRK DEPC Water: 1x40mL, EB-TRK RNA Wash Buffer I: 1x200mL, EB-TRK RNA Wash Buffer II: 1x50mL, EB-TRK TRK Lysis Buffer: 1x150mL, EB-TRK 2mL Collection Tubes: 400, EB-TRK RNA Mini Columns: 200

Product Description:

EB Pure Total RNA Kit is a convenient system for the fast and reliable purification of RNA from cells or soft tissue. The key to this system is the High-Bind matrix that specifically, but reversibly, binds RNA under optimized conditions allowing proteins and other contaminants to be removed. Then RNA is easily eluted with deionized water or a low salt buffer. Each column can bind up to 100μg of RNA. This kit is used to recover RNA ready for applications such as RT-PCR, Northern blotting, poly A+ RNA (mRNA) purification, nuclease protection, and in vitro translation.

Additional Materials and Equipment to be Supplied by User:

- Microcentrifuge capable of at least 14,000 x g
- RNase-free pipettes and 1.5 mL microcentrifuge tubes
- 100% ethanol
- 70% ethanol in sterile DEPC-treated water
- Homogenization equipment
 - Homogenizer columns
 - Needle and Syringe
 - Mortar and pestle
 - Glass beads
 - o Rotor-stator Homogenizer
- Optional: 14.3M 2-mercaptoethanol (β-mercaptoethanol)

Preparation Procedure:

Prepare RNA Wash Buffer II according to the table below and store are room temperature:

- For EB-TRK-50 Kits add 48mL of 100% Ethanol to RNA Wash Buffer II Bottle and indicate addition on the bottle.
- For EB-TRK-200 Kits add 200mL of 100% Ethanol to each RNA Wash Buffer II Bottle and indicate addition on the bottle.
- Optional: Add 20 μ L 2-mercaptoethanol (β -mercaptoethanol) per 1 mL TRK Lysis Buffer. This mixture can be stored for 2 weeks at room temperature.

Procedure Options:

Centrifugation Protocol – Listed below and in Lab Manual available online at empiricalbioscience.com Vacuum Protocol – Listed in the Lab Manual available online at empiricalbioscience.com

*This product is intended for Research Use Only. This product is manufactured under ISO13485:2016 Quality System Requirements and is available for use as a Raw Material for use in IVD applications. Please contact Empirical Bioscience for further details.

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Centrifugation Protocol

1.	 For Tissue: Determine the proper amount of starting material. Homogenize and disrupt the tissue. Add 350 μL of TRK Lysis Buffer for less than 15 mg of tissue, or 700 μL for 20-30 mg of tissue. Centrifuge and maximum speed (≥12,000 x g) for 5 minutes. 			
	 Transfer only the clarified supernatant to a fresh microcentrifuge tube. Avoid any fatty upper layer that may have formed. For Cultured Cells: 			
	 Determine the proper amount of starting material. Harvest the cells and resuspend the pellet in 350 μL of TRK Lysis Buffer for less than 5 x 10⁶ cells, or 700 μL for 5-10 x 10⁶ cells. Homogenize the cells using a syringe and needle or homogenizer mini-columns. Optional: Add 20 μL β-ME per 1mL TRK Lysis Buffer before using. 			
2.	Add 1 volume 70% ethanol. Vortex to mix thoroughly. Do not centrifuge. If the sample has lost any volume during homogenization, adjust the volume of ethanol to match.			
3.	Insert a High-Bind RNA Mini Column into a 2mL Collection Tube (provided).			
4.	Transfer 700 μ L sample to the Mini Column. Centrifuge at 10,000 x g for 1 minute. Discard the filtrate and reuse the Collection Tube.			
5.	Repeat Step 4 until all of the sample has been transferred to the column.			
6.	Optional: Perform DNase digestion according to your preferred protocol.			
7.	Add 500 μ L RNA Wash Buffer I to the column. Centrifuge 10,000 x g for 30 seconds. Discard the filtrate and reuse the Collection Tube.			
8.	Add 500 μ L RNA Wash Buffer II diluted with 100% ethanol (See Bottle) to the column. Centrifuge 10,000 x g for 1 minute. Discard the filtrate and reuse the Collection Tube.			
9.	Repeat Step 8.			
10.	Centrifuge at maximum speed for 2 minutes to dry the column.			
11.	Transfer the High-Bind Column to a clean 1.5mL microcentrifuge tube (not provided).			
12.	Add 40-70 µL DEPC Water. Centrifuge at maximum speed for 2 minutes.			
13.	Store eluted RNA at -70°C.			

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