

Product Name: Tissue Total RNA Mini Kit

Catalog No.: TAEK04R

INTENDED USE: For Research Use Only. Not for use in diagnostic procedures.

DESCRIPTION:









Tissue Total RNA Mini Kit

Cat. No:	TAEK04R-50 (50 preps)	TAEK04R-100 (100 preps)
RB Buffer	25 ml	45 ml
Wash Buffer 1	30 ml	60 ml
Wash Buffer 2	15 ml	35 ml
RNase-free Water	6 ml	6 ml
Filter Column	50 pcs	100 pcs
RB Mini Column	50 pcs	100 pcs
Collection Tube	100 pcs	200 pcs
Elution Tube	50 pcs	100 pcs
Preparation of Wash Buffer 2 by adding ethanol (96 ~ 100%)		
Ethanol volume for Wash Buffer 2	60 ml	140 ml

Important Notes:

1. Make sure everything is RNase-free when handling RNA.
2. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffers.
3. Caution: β -mercaptoethanol is hazardous to human health. Perform the procedures involving RB Buffer in a chemical fume hood.
4. Add required volume of RNase-free ethanol (96~100%) to Wash Buffer 2 when first use.
5. Dilute RNase-free DNase 1 in reaction buffer (1M NaCl, 10 mM MnCl₂, 20 mM Tris-HCl, pH 7.0 at 25°C) to final conc. = 0.5 U/ μ l.

Protocol:

<p>Sample Preparation</p> 	<p>A. For Tissue Sample: Homogenization (Grind the sample in liquid nitrogen) B. For Cultured cells: Centrifuge at 300 x g for 5 min at 4°C.</p>
<p>Lysis</p> 	<p>Add 350 µl of RB Buffer and 3.5 µl of β-Mercaptoethanol.</p>
<p>Filtration</p> 	<ol style="list-style-type: none"> 1. Filtration: Centrifuge at full speed (~18,000 x g) for 2 min. 2. Add 1 volume 70% Ethanol to the supernatant.
<p>Binding</p> 	<p>Transfer the supernatant to RB Mini Column. Centrifuge at full speed (~18,000 x g) for 1 min.</p>
<p>Wash</p>  <div data-bbox="379 943 507 1077" style="border: 1px solid black; padding: 2px; width: fit-content;"> <p>Optional step: DNase I digestion</p> </div>	<ol style="list-style-type: none"> 1. Add 500 µl of Wash Buffer 1. Centrifuge at full speed (~18,000 x g) for 1 min. 2. Add 750 µl of Wash Buffer 2. Centrifuge at full speed (~18,000 x g) for 1 min. <p>Repeat this step for one more washing.</p>
<p>Dry</p> 	<p>Centrifuge at full speed (~18,000 x g) for an additional 3 min to dry the column.</p>
<p>Elution</p> 	<p>Add 40 ~ 100 µl of RNase-free ddH₂O Stand for 1 min. Centrifuge at full speed (~18,000 x g) for 1 min Store RNA at -70°C.</p>
<p>Pure RNA</p> 	<p>Optional step:</p> <ol style="list-style-type: none"> 1. Add 250 µl of Wash Buffer 1. Centrifuge at full speed (~18,000 x g) for 1 min. 2. Add 60 µl of RNase-free DNase 1 solution (0.5U/ul, not provided). Stand for 15 min. 3. Add 250 µl of Wash Buffer 1. Centrifuge at full speed (~18,000 x g) for 1 min. 4. Add 750 µl of Wash Buffer 2. Centrifuge at full speed (~18,000 x g) for 1 min. 5. Repeat this step for one more washing.

Storage and Stability:

Please read the kit contents and follow the storage condition. The user must validate any other storage conditions. When properly stored, the reagent is stable until the date indicated on the label. Do not use the reagent beyond the expiration date. If unexpected results are observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Technical: info@biotna.net