BioChain®
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Certificate of Analysis

Product Name:

□ Total RNA, shipped at ambient temperature **Catalog No.: ATRXXXXXXX**

Shipping Condition: Ambient

Storage Condition: in dry form store at room temperature
in reconstituted liquid form store at -70°C

Shelf Life: Half a year from the date of receipt under proper storage condition. Store dry at room temperature or store reconstituted at -70°C

Description

- **Total RNA** is isolated by modified guanidine thiocyanate techniques and dry treated for stability at ambient temperature.

Quality Control

- **Total RNA**
  1. The integrity of the RNA is examined by visual inspection for the presence of intact bands of 18s and 28s ribosomal RNA when electrophoreses on a denaturing agarose gel. The quality and purity of total RNA were tested by spectrophotometer. $A_{260/280}$ is between 1.8 and 2.1
  2. The RNA is treated by DNAse I, and is tested as DNA free RNA by PCR
  3. cDNA synthesis is successfully performed by using this RNA as template

RNA Recovery Protocol

For RNA units of 10 µg/vial, add 10 µl molecular-grade water to the vial. For 50 µg/vial, add 50 µl.
Incubate the vial at room temperature (21°C-25°C) for 10 minutes. (Do not attempt to recover RNA on ice).
Pipette up and down 10 times to reconstitute the RNA. Alternatively, vial may be vortexed for 10 seconds and centrifuged briefly. The RNA is ready for use in QC or downstream applications.

RNA recovered from dried vials may be used for up to 8 hours in liquid form at room temperature (21°C-25°C), or on ice, for increased stability. Following the 8 hours period post recovery, store recovered RNA at -70°C.

Note:

1. Total RNA from some rare tissues and tumor tissues may not be treated by DNAse I
2. To visualize the RNA images on agarose gel, we recommend the same gel system be used as BioChain's (1% agarose gel in 1xMOPS buffer with formaldehyde). BioChain is not responsible for customers getting degraded RNA images from other gel systems, such as TAE gel, TBE gel, Urea gel, etc.
3. RNA concentration should be measured by diluting the RNA in 10 mM Tris-HCl, pH 7.5 in general spectrophotometer, or directly on Nanodrop by using DEPC water with 0.1 mM EDTA as blank. RNA concentration may vary if it is detected in other solutions.

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