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# **Certificate of Analysis**

roduct Name:	
☐ Total RNA	Catalog No.: RXXXXXXX
☐ Human Tumor Total RNA Matched Pair (PP/PM)	Catalog No.: R8235XXX-PP/PM
□ mRNA	Catalog No.: MXXXXXXX

Storage Condition: -70°C

Shipping Condition: Dry Ice

**Shelf Life:** Half a year from the date of receipt under proper storage condition

## Description

- Total RNA is isolated by modified guanidine thiocyanate techniques and stored in RNA storage
- Human tumor matched pair total RNA (PP/PM). Products include: Primary Pair (PP), or Primary and Metastatic Pair (PM). PP consists of total RNA isolated from primary tumor and its adjacent normal tissue; PM consists of total RNA from primary tumor and corresponding metastatic tumor. Total RNA in each pair is prepared from the same donor. This product line is designed for identifying tumor-specific genes and tumor metastatic genes.
- mRNA is purified from high quality of total RNA using a modified Oligo (dT) cellulose method and stored in DEPC treated water. Total RNA is isolated by a modified quanidine thiocyanate method.

### **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<sub>260/280</sub> is between 1.8 and 2.0 (detected in 10 mM Tris-HCI, pH 7.5).
- 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.

#### mRNA:

- 1. The quality and purity of mRNA is tested by spectrophotometer. A<sub>260/280</sub> is between 1.8 and 2.0 (detected in 10mM Tris-HCl, pH 7.5).
- 2. The integrity of mRNA is checked by electrophoresis on a denaturing agarose gel with a smear from 0.5 Kb up to more than 9.0 Kb.

#### Note:

1. Total RNA from some rare tissues and tumor tissues may not be treated by DNAse I

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- 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 customer's getting degraded RNA images from other gel systems, such as TAE gel, TBE gel, Urea gel,
- 3. RNA concentration should be measured in 10 mM Tris-HCl, pH 7.5, RNA concentration may vary if it is detected in other solutions, such as DEPC

**APPROVED BY**