

## Mouse Total RNA Master Panel

Catalog No.	Amount	Lot Number
636644	15 Tissues	2103376A

### Description

Total RNA isolated by a modified guanidinium thiocyanate method (Chomczynski and Sacchi 1987).

### Package Contents

- 10 µg Total RNA from each of the tissues/cells specified below

### Storage Conditions

- Store at  $-70^{\circ}\text{C}$ .

### Form

- Total RNA provided in RNase-Free water.

### Concentration

- 1 µg/µl

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Dry ice ( $-70^{\circ}\text{C}$ )

### Important Note

- To prevent contamination by RNases, always wear gloves when handling RNA. Avoid multiple freeze/thaw cycles.

### References

Chomczynski, P. & Sacchi, N. Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. *Anal. Biochem.* **162**, 156–9 (1987).

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#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

United States/Canada 800.662.2566 (022217)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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## Tissue Sources

<b>Tissue</b>	<b>Source</b>
11-day Embryo	Pooled from 300 male/female Webster mice.
15-day Embryo	Pooled from 400 male/female Webster mice.
17-day Embryo	Pooled from 200 male/female Webster mice.
Brain	Pooled from 34 male BALB/c mice; ages: 10 weeks.
Eye, whole	Pooled from 800 female BALB/c mice; ages: 9-12 weeks.
Heart	Pooled from 560 male BALB/c mice; ages: 8-12 weeks.
Kidney	Pooled from an unspecified amount of male/female BALB/c mice; ages: 6 weeks.
Liver	Pooled from 69 male BALB/c mice; ages: 8-12 weeks.
Lung	Pooled from an unspecified amount of male/female BALB/c mice; ages: 8 weeks.
Salivary Gland	Pooled from 200 male/female BALB/c mice; ages: 6-10 weeks.
Smooth Muscle	Pooled from 200 male/female BALB/c mice; ages: 8 weeks.
Spinal Cord	Pooled from 160 male BALB/c mice; ages: 9.5-11.5 weeks.
Spleen	Pooled from 200 male/female BALB/c mice; ages: 8-12 weeks.
Stomach	Pooled from 60 male BALB/c mice; ages: 8-12 weeks.
Testis	Pooled from 200 male BALB/c mice; ages: 8-12 weeks.

## Quality Control Data

Each total RNA lot included in the panel was individually analyzed by one of the following methods:

- Capillary electrophoresis (CE) using an Agilent 2100 Bioanalyzer, or
- Denaturing formaldehyde agarose gel electrophoresis

### **Agilent 2100 Bioanalyzer method and criteria:**

For samples tested by this method: Each individual lot of total RNA was analyzed by capillary electrophoresis (CE) using an Agilent 2100 Bioanalyzer. RNA concentration and purity were evaluated by UV spectrophotometry. Both the area ratio of the 28S/18S rRNA peaks, and the proportion (relative percentage) of these two peaks area to the total area under the electropherogram provide reliable quantitative estimates of RNA integrity. For both of these criteria, this sample meets or exceeds our standards for high-quality total RNA.

### **Denaturing formaldehyde gel method and criteria:**

For samples tested by this method: After electrophoresis on a denaturing formaldehyde gel, each individual lot of RNA was found to have distinct 28S and 18S ribosomal bands. RNA concentration and purity were evaluated by UV spectrophotometry.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

## Mouse Total RNA Master Panel

### CATALOG NO.

636644

### NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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U.S. Technical Support: techUS@takarabio.com

**United States/Canada**

800.662.2566

**Asia Pacific**

+1.650.919.7300

**Europe**

+33.(0)1.3904.6880

**Japan**

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