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**PRODUCT: Mouse Universal Reference Total RNA**

**CATALOG No.** 636657

**LOT NUMBER**

Specified on product label.

**QUANTITY**

2 x 200 µg

**CONCENTRATION**

1 µg/µl

**FORM**

Solution of total RNA in RNase-free H<sub>2</sub>O

**STORAGE CONDITIONS**

-70°C

**SHELF LIFE**

1 year from date of receipt under proper storage conditions.

**SHIPPING CONDITIONS**

Dry ice (-70°C)

**DESCRIPTION**

Mixture of total RNAs from a collection of adult mouse tissues, chosen to represent a broad range of expressed genes. Both male and female animals are represented. Universal Reference Total RNA serves as a standard for comparing gene expression data and is useful as an internal control for microarray expression profiling experiments.

Total RNA was isolated by a modified guanidinium thiocyanate method (1).

**FOR RESEARCH USE ONLY**

**QUALITY CONTROL DATA**

This lot of total RNA was analyzed by capillary electrophoresis (CE) using an Agilent 2100 Bioanalyzer. RNA integrity was determined by the resulting electropherogram trace as follows: the area ratio of the 28S/18S rRNA peaks was  $\geq 1.0$ , while the proportion (relative percentage) of the 28S and 18S combined peak areas to the total trace area was  $\geq 15.0\%$ .

The Universal Reference Total RNA was labeled and hybridized to a high-density mouse gene expression array. Expected gene expression profile was determined.



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**REFERENCES**

1. Chomczynski, P. & Sacchi, N. (1987) Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. *Anal. Biochem.* **162**:156-159.

APPROVED BY: \_\_\_\_\_

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