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**PRODUCT: Rat Universal Reference Total RNA**

<b>CATALOG No.</b>	<b>AMOUNT</b>	<b>DESCRIPTION</b>
636658	2 x 200 µg	Mixture of total RNAs from a collection of adult rat tissues, chosen to represent a broad range of expressed genes. Both male and female animals are represented. Rat Universal Reference Total RNA serves as a standard for the comparison of gene expression data and is useful as an internal control for microarray expression profiling experiments.
<b>LOT NUMBER</b>		Total RNA was isolated by a modified guanidinium thiocyanate method (1).
Specified on product label.		
<b>CONCENTRATION:</b> 1 µg/µl		
<b>FORM</b>		
Solution of total RNA in RNase-free H <sub>2</sub> O		
<b>STORAGE CONDITIONS:</b> -70°C		
<b>SHELF LIFE</b>		
1 year from date of receipt under proper storage conditions.		
<b>SHIPPING CONDITIONS</b>		
Dry ice (-70°C)		

**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 rat gene expression array. Expected gene expression profile was determined.



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**REFERENCE**

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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