



Lot 0006047972

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Catalog Number	750700
Product Name	Universal Human miRNA Reference RNA
Expiration Date	2030-10-31
Quantity	10 µg
Certified By	Dana Faver
Quality Controlled By	Zulema Bates
Shipping Conditions	Shipped on dry ice.
Storage Conditions	Store the Universal Human miRNA Reference RNA at -80°C.

Concentration

1 µg/µl

Description

The Universal Human miRNA Reference RNA is composed of total RNA from nine human tissues or cell lines, in amounts that have been optimized for miRNA representation. The reference RNA is designed to be used as a reference control for miRNA microarray or miRNA-targeted QRT-PCR experiments.

Tissue and Cell Line Representation

Placenta tissue
Adult liver tissue
Adult brain tissue
Adult heart tissue
Adult breast tissue
Adult colon tissue
Adult testis tissue
Fetal brain tissue
Testis cell line

Test Conditions

The Reference RNA is functionally tested for miRNA coverage in microarray experiments using Agilent Human miRNA Microarrays (v.2).

The integrity of the Universal Human miRNA Reference RNA is verified by the following methods:

- 1) Analysis using the Agilent 2100 Bioanalyzer and the RNA 6000 Nano LabChip kit verifies the absence of significant degradation products (28S rRNA: 18S rRNA ratio >1 and RIN >7)
- 2) Denaturing electrophoresis on 1× MOPS agarose gel produces distinct 28S and 18S ribosomal bands

RNA concentration and purity is assessed by spectrophotometry (A_{260}/A_{280} ratio >1.8 and A_{260}/A_{230} ratio >1.0). The RNA is shown to be free of contaminating RNases by incubation in a suitable buffer at 37° C followed by gel analysis against known RNase-free controls. The absence of genomic DNA is verified using a QPCR assay with primers specific for genomic DNA.

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