Applied StemCell, Inc.
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Datasheet

Human Skin Cells (Dermal Fibroblasts) Total RNA (AVM)

Product Information

Catalog Number **ASD-0036**

Description Applied StemCell's total RNA passes an extensive testing to ensure a high degree of purity and intactness. RNA is isolated using a modified guanidinium thiocyanate method.1 Residual genomic DNA is removed with RNAase-free DNAase I. Applied StemCell's total RNA can be used in downstream applications such as RT-PCR and real-time RT-PCR; differential display; cDNA synthesis; Northern, dot, and slot blot analyses; primer extension; poly A+ RNA selection; RNAase/S1 nuclease protection; and microarrays.

This RNA comes from the fibroblasts of an individual who has been clinically diagnosed with arteriovenous malformation (AVM), an abnormal connection between veins and arteries that is usually congenital.

Quantity 10 µg

Origin Human, single donor

Development Period Postnatal

Disease State Arteriovenous Malformation (AVM)

Absorbance (A_{260}/A_{280}) 1.8 – 2.1

Test Conditions RNA quality is determined visually by analyzing 18S and 28S ribosomal bands using non-denaturing agarose gel electrophoresis. The RNA purity level is determined by spectrophotometry to obtain the A260/A280 ratio, which must range from 1.8-2.1. Plus, the RNA functionality is assayed by RT-PCR using primers for housekeeping gene GAPDH. RNA is confirmed to be DNA-free by RT-PCR.

Handling instructions RNA products are sensitive to degradation by temperature changes or exogenous ribonucleases that result during the handling processes. Must wear gloves at all times when handling RNA. All reagents used, tubes, and barrier pipettes must be RNase-free.

For thawing RNA: place tube in ice and thaw to completion. Vortex tube for a few seconds and spin down RNA quickly and place in ice once again. To minimize freeze-thaw cycles (< 3), aliquot RNA as desired.

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Storage Conditions	Store total RNA at -80°C. Can be stored at -20°C for short term in a frost-free freezer. Avoid multiple freeze-thaw cycles. To prevent any possible RNase contamination, always wear gloves when handling RNA. For maximum recovery of product, centrifuge the original vial after thawing and before removing the cap.
Storage Solution	RNase-free water
Warranty	Applied StemCell is committed to providing only superior-quality research products. Our products are specifically intended for research purposes only and are guaranteed to perform according to documented product specifications. Full warranty information for the products may be requested from our technical support or sales team at the numbers provided below.
Product Use/ Safety Statement	RNA PRODUCT IS FOR RESEARCH USE ONLY. Not approved for human or veterinary use, in vitro diagnostics, or clinical procedures.
WARNING	The accompanying product contains human source material. Treat as potentially infectious. All donors are tested for the presence of HIV-1, HIV-2, Hepatitis B virus, and Hepatitis C virus.

References

1. Chomczynski et al. (1987). Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. Analytical Biochemistry. 162: 156–159.