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Product Specification

Product Name:
ReadyScript™ cDNA Synthesis Mix

Product Number: RDRT

Storage Temperature: -20 °C

TEST	Specification
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Functional Assay	Pass
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(RT-qPCR)

First-strand synthesis is performed on a 10 fold serial dilution over 6 orders of dynamic range (1 µg to 1 pg) using total RNA from HeLa S3 cell. One tenth of each first strand reaction is used as template for SYBR Green real-time PCR of a house-keeping gene (beta-actin mRNA) in duplicate reactions. Ct standard curve analysis must have a correlation coefficient ≥ 0.990 with a slope between -3.20 and -3.70

DNase, Exonuclease Detection	Pass
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No detectable DNase as assayed using a fluorogenic substrate. Normalized fluorescent signal following a 1 hour incubation with 1X ReadyScript cDNA SuperMix at 37°C must be less than 3 times that of negative control levels.

RNAse Detection	Pass
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No detectable RNAse as assayed using a fluorogenic substrate. Normalized fluorescent signal following a 1 hour incubation with 1X ReadyScript cDNA SuperMix at 37°C must be less than 3 times that of negative control levels.

Specification: PRD.0.ZQ5.10000023285

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.