

| Product Information | |
|---|--|
| qScript® MicroRNA cDNA Synthesis | |
| Part Number | 95107-025 |
| Number of Reactions | 25 Reactions |
| Reaction Size | 20 µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 023878 |
| Reference Number | 012517, 061217, 051717, 031317, 160550828, 17752 |
| Expiration Date | 09/30/2018 |

Product Description:

The qScript microRNA cDNA Synthesis Kit is an optimized reagent system that reverse transcribes small single-stranded RNA into 5'-labeled cDNA using either total RNA or miRNA enriched samples.

Single-stranded RNA is first polyadenylated by poly(A) polymerase before reverse transcription into universal cDNA using high performance qScript RT with a proprietary adapter oligo(dT) primer. The universal cDNA template enables simple and cost-effective microRNA profiling when used together with wet-lab validated PerfeCta microRNA Assays, PerfeCta Universal PCR Primer and PerfeCta SYBR Green SuperMix.

Component Part Numbers:

- 84001 qScript RT 0.025 mL
- 84172 Poly (A) Tailing Buffer (5X)
- 84174 Poly (A) Polymerase
- 84176 MicroRNA cDNA Reaction Mix
- 84178 PerfeCta Universal PCR Primer
- 84180 PerfeCta Human Positive Control Primer
- 84007 Nuclease Filled Water 1.50 mL

| Product Specifications | | | | |
|------------------------|-------------------------------------|--|-------|-------|
| 95107 | | | | |
| Assay | qScript microRNA cDNA Synthesis Kit | β-actin SYBR Green qRT-PCR Assay for qScript Reverse Transcriptase | DNase | RNase |
| Result | Pass | Pass | Pass | Pass |

Quality Control Analysis and Specifications:

Nuclease Assay

DNase: DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

RNase: RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

qScript microRNA cDNA Synthesis Kit Must have detection of microRNA from 100 ng to 10 pg. Correlation of determination (R^2) \geq 0.990 from Ct standard curve analysis. Slope from Ct standard curve analysis between -3.20 and -3.75. The +PAP reactions must show a \geq 11 Ct difference from the “no-PAP” reactions. There must be at least three negative template controls with “undetermined” values.

β-actin SYBR Green qRT-PCR Assay for qScript Reverse Transcriptase: Detection of β-actin mRNA from 100ng to 100fg of total RNA. Coefficient of determination (R^2) \geq 0.990 with a slope analysis between -3.20 and -3.70

Limitations of Use

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This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.