Product Specifications: 95107-025 Rev 01

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### Product Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>95107-025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Reactions</td>
<td>25 Reactions</td>
</tr>
<tr>
<td>Reaction Size</td>
<td>20 µL</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-25°C to -15°C</td>
</tr>
<tr>
<td>Lot Number</td>
<td>028159</td>
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<tr>
<td>Reference Number</td>
<td>042517, 061217, 051717, 042618, 160550828, 191716390</td>
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<tr>
<td>Expiration Date</td>
<td>04/30/2020</td>
</tr>
</tbody>
</table>

### 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 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.

### Product Specifications

<table>
<thead>
<tr>
<th>Assay</th>
<th>qScript microRNA cDNA Synthesis Kit</th>
<th>β-actin SYBR Green qRT-PCR Assay for qScript Reverse Transcriptase</th>
<th>DNase</th>
<th>RNase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
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</tbody>
</table>

### 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 ($R^2$) ≥ 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 ≥ 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 ($R^2$) ≥ 0.990 with a slope analysis between -3.20 and -3.70

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