**Product Description:**
qScript 1-Step Virus ToughMix is a 2x, ready-to-use, master mix for rapid detection of RNA viruses such as Flu-A, Flu-B, and SARS-CoV-2, using one-step, or single-tube reverse transcription quantitative PCR (RT-qPCR). It has been optimized for maximum sensitivity to enable reliable quantification of very low input quantities of RNA using dual-labeled hydrolysis probe detection chemistries such as TaqMan® probes in single or multiplexed assay formats. qScript 1-Step Virus ToughMix contains all required components for RT-qPCR except RNA template and primer/probe assays.

qScript 1-Step Virus ToughMix does not contain an internal reference dye.

**Kit Components:**
84649 qScript Virus 1-Step Virus ToughMix, 1mL.

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**Product Specifications**

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<th>Assay</th>
<th>1-Step RT-qPCR Functional Assay</th>
<th>DNase</th>
<th>RNase</th>
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<tbody>
<tr>
<td>Result</td>
<td>Pass</td>
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<td>Pass</td>
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</tbody>
</table>

**Quality Control Analysis and Specifications:**

1-Step RT-qPCR Functional Assay: Cq standard curve analysis must have coefficient of determination ($R^2$) $\geq$ 0.990 with a slope between $-3.20$ and $-3.65$. Control reactions lacking template RNA (NTC) must remain below fluorescence threshold through 45 PCR cycles.

Nuclease Assay:
- **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.
- **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.

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**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.

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