

| Product Information | |
|------------------------------------|----------------|
| qScript 1-Step Virus ToughMix (2X) | |
| Part Number | 95131-02K |
| Number of Reactions | 2000 |
| Reaction Size | 20µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 66189058 |
| Reference Number | 061421 |
| Expiration Date | 08/31/2022 |

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.

| Product Specifications | | | |
|------------------------|---------------------------------|-------|-------|
| 95131 | | | |
| Assay | 1-Step RT-qPCR Functional Assay | DNase | RNase |
| Result | Pass | Pass | Pass |

Quality Control Analysis and Specifications:

1-Step RT-qPCR Functional Assay: Cq standard curve analysis must have coefficient of determination (R^2) ≥ 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.

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.