

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	66203836
Reference Number	O33022
Expiration Date	04/30/2023

**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 ( $R^2$ )  $\geq 0.990$  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.

**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.