

Product Information	
<b>XLT 1-Step ToughMix v2 (2x)</b>	
<b>Part Number</b>	95131
<b>Unit Size</b>	400 mL
<b>Storage Temperature</b>	-80°C to -60°C
<b>Lot Number</b>	66181142
<b>Reference Number</b>	043021
<b>Expiration Date</b>	04/30/2024

**Product Description:**

XLT 1-Step ToughMix v2 is a custom formulation of qScript XLT One-Step RT-qPCR ToughMix which is a ready-to-use, highly sensitive master mix for reverse transcription quantitative PCR (RT-qPCR) of RNA templates using hybridization probe detection chemistries such as TaqMan® 5'-hydrolysis probes.

Product Specifications			
95131			
Assay	1-Step RT-qPCR Functional Assay	DNase	RNase
<b>Result</b>	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.