

| Product Information                |                |
|------------------------------------|----------------|
| <b>XLT 1-Step ToughMix v2 (2x)</b> |                |
| Part Number                        | 95131          |
| Unit Size                          | 800 mL         |
| Storage Temperature                | -80°C to -60°C |
| Lot Number                         | 66200042       |
| Reference Number                   | 033022         |
| Expiration Date                    | 03/31/2025     |

**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 |
| 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.