

| Product Information | |
|---------------------------------|----------------|
| qScript® XLT cDNA SuperMix (5X) | |
| Part Number | 95161-500 |
| Number of Reactions | 500 Reactions |
| Reaction Size | 20 µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 66181658 |
| Reference Number | 042221 |
| Expiration Date | 04/30/2022 |

Product Description:

qScript XLT cDNA SuperMix is a next-generation tool for first-strand cDNA synthesis, providing a highly sensitive and easy-to-use solution for two-step RT-PCR and RT-qPCR. qScript XLT is an engineered M-MLV reverse transcriptase mutant with reduced RNase H activity and improved yield and stability at higher temperatures. Combined with a precise mixture of reaction components, this SuperMix enables superior results over a wide dynamic range of input RNA, with up to 8-fold higher sensitivity than our previous qScript cDNA SuperMix cDNA synthesis kits, which utilize an engineered RNase H(+) reverse transcriptase mutant.

Component Part Numbers:

84358 qScript XLT cDNA SuperMix 1.0mL

| Product Specifications | | | |
|------------------------|--------------------------------------------|-------|-------|
| 95161 | | | |
| Assay | qScript XLT cDNA SuperMix Functional Assay | DNase | RNase |
| Result | Pass | Pass | Pass |

Quality Control Analysis and Specifications:

Nuclease Assay:

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.

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.

qScript XLT cDNA SuperMix Functional Assay: Real-time One-Step RT-PCR of a reference gene (ACTB) in triplicate reactions is performed on a 10 fold serial dilution over 6 orders of dynamic range (100 ng to 100 fg) using a Universal Reference total RNA preparation. Slope from Ct standard curve analysis between -3.20 and -3.65. No Template Control below the threshold for at least two replicates.

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.