

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	66209771
Reference Number	042221
Expiration Date	07/31/2023

**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.