

Product Information	
qScript Ultra SuperMix	
Part Number	95217-500
Number of Reactions	500 Reactions
Reaction Size	20 $\mu$ L
Storage Temperature	-25°C to -15°C
Lot Number	66231411
Reference Number	062023
Expiration Date	07/31/2024

**Product Description:**

qScript Ultra SuperMix is a highly stabilized, efficient and easy-to-use single tube master mix for the synthesis of first-strand cDNA to reverse transcribe RNA to cDNA. A key component is a novel, state-of-the-art, RNase H deficient reverse transcriptase that was engineered for improved thermostability, velocity and processivity. qScript Ultra SuperMix contains all required components for first-strand cDNA synthesis except RNA template. This cDNA SuperMix is directly compatible with downstream 2-step RT-qPCR or RT-PCR procedures.

**Component Part Numbers:**

84659 qScript Ultra SuperMix, 2.0 mL

Product Specifications	
95217	
Assay	qScript Ultra SuperMix Functional Assay
Result	Pass

**Quality Control Analysis and Specifications:**

Kit components are free of contaminating DNase and RNase. qScript Ultra SuperMix is functionally tested in RT-qPCR for detection of  $\beta$ -actin mRNA in triplicate reactions using log-fold serial dilutions of total RNA from 1  $\mu$ g to 1 pg, followed by qPCR amplification using 1/10 of each first-strand reaction. Analysis must demonstrate a coefficient of determination ( $R^2$ )  $\geq$  0.990 with a slope analysis between -3.20 and -3.70.

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.

**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.

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