

| Product Information | |
|------------------------|----------------|
| qScript Ultra SuperMix | |
| Part Number | 95217-500 |
| Number of Reactions | 500 Reactions |
| Reaction Size | 20 μ L |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 66282351 |
| Reference Number | 042525 |
| Expiration Date | 05/31/2026 |

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 β -actin mRNA in triplicate reactions using log-fold serial dilutions of total RNA from 1 μ 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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