

| Product Information    |                |
|------------------------|----------------|
| qScript Ultra SuperMix |                |
| Part Number            | 95217-100      |
| Number of Reactions    | 100 Reactions  |
| Reaction Size          | 20 $\mu$ L     |
| Storage Temperature    | -25°C to -15°C |
| Lot Number             | 66252548       |
| Reference Number       | 042424         |
| Expiration Date        | 05/31/2025     |

**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:**

84658 qScript Ultra SuperMix, 0.4 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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