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New England Biolabs Product Specification

Product Name: ProtoScript® First Strand cDNA Synthesis Kit

Catalog #: E6300S/L

Kit Components: Nuclease-free Water (B1502)

M-MuLV Enzyme Mix (M0342) M-MuLV Reaction Mix (M0343) Random Primer Mix (S1330) Oligo d(T)₂₃ VN (S1332)

Shelf Life: 18 months
Storage Temp: -20°C

Specification Version: PS-E6300S/L v2.0
Effective Date: 30 Aug 2021

Assay Name/Specification (minimum release criteria)

Functional Testing (RT-PCR, Length) - The performance of M-MuLV Reaction Mix with 1X M-MuLV Enzyme Mix is tested in a 20 μ l RT reaction with 1 μ g Human total RNA. The length of the product is verified by amplification of the p532 gene using 0.4 μ l of the RT reaction and 35 cycles of PCR amplification resulting in the expected 5.5 kb product.

Functional Testing (RT-PCR, Sensitivity) - The performance of M-MuLV Reaction Mix with 1X M-MuLV Enzyme Mix is tested in a $20~\mu$ l RT reaction with 20 pg Human total RNA. The sensitivity of the product is verified by amplification of GAPDH using 0.4 μ l of the RT reaction and 35 cycles of PCR amplification resulting in the expected product.

* Individual Product Component Note - Standard Quality Control Tests are performed for each component included in ProtoScript® First Strand cDNA Synthesis Kit and meet the designated specifications.

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Derek Robinson

Director, Quality Control





