

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 dd(T)₂₃ VN (S1332)
Shelf Life: 24 months
Storage Temp: -20°C
Specification Version: PS-E6300S/L v1.0
Effective Date: 04 Apr 2018

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 µl RT reaction with 1 µg Human total RNA. The length of the product is verified by amplification of the p532 gene using 0.4 µl 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 µl RT reaction with 20 pg Human total RNA. The sensitivity of the product is verified by amplification of GAPDH using 0.4 µl 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.



Date 04 Apr 2018

Derek Robinson
Director of Quality Control

