

## New England Biolabs Certificate of Analysis

**Product Name:** ProtoScript® First Strand cDNA Synthesis Kit  
**Catalog Number:** E6300S  
**Packaging Lot Number:** 10263636  
**Expiration Date:** 03/2026  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E6300S/L v2.0

ProtoScript® First Strand cDNA Synthesis Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1332AVIAL	Oligo d(T)23 VN	10256757	Pass
S1330AVIAL	Random Primer Mix	10227783	Pass
M0343AVIAL	M-MuLV Reaction Mix	10256738	Pass
M0342AVIAL	M-MuLV Enzyme Mix	10256737	Pass
B1502AVIAL	Nuclease-free Water	10245817	Pass

Assay Name/Specification	Lot # 10263636
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in ProtoScript® First Strand cDNA Synthesis Kit and meet the designated specifications.</p>	<b>Pass</b>
<p><b>Functional Testing (RT-PCR, Length)</b> 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.</p>	<b>Pass</b>
<p><b>Functional Testing (RT-PCR, Sensitivity)</b> 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.</p>	<b>Pass</b>

This product has been tested and shown to be in compliance with all specifications.

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07 Oct 2024



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Josh Hersey  
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06 Nov 2024