

## New England Biolabs Certificate of Analysis

Product Name: *ProtoScript® First Strand cDNA Synthesis Kit*  
 Catalog Number: *E6300S*  
 Packaging Lot Number: *10142683*  
 Expiration Date: *09/2023*  
 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	10130664	Pass
S1330AVIAL	Random Primer Mix	10130663	Pass
M0343AVIAL	M-MuLV Reaction Mix	10142685	Pass
M0342AVIAL	M-MuLV Enzyme Mix	10142684	Pass
B1502AVIAL	Nuclease-free Water	10137924	Pass

Assay Name/Specification	Lot # 10142683
<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>	Pass
<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>	Pass
<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>	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

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22 Mar 2022

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22 Mar 2022