

## New England Biolabs Certificate of Analysis

Product Name: *ProtoScript® First Strand cDNA Synthesis Kit*  
 Catalog Number: *E6300S*  
 Lot Number: *10023193*  
 Expiration Date: *12/2019*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-E6300S/L v1.0*

ProtoScript® First Strand cDNA Synthesis Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1332AVIAL	Oligo d(T)23 VN	0061803	Pass
S1330AVIAL	Random Primer Mix	10023192	Pass
M0343AVIAL	M-MuLV Reaction Mix	10009986	Pass
M0342AVIAL	M-MuLV Enzyme Mix	10011061	Pass
B1502AVIAL	Nuclease-free Water	10009166	Pass

Assay Name/Specification	Lot # 10023193
<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.	Pass
<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.	Pass
<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.	Pass

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

*Christie Vazquez*

Christie Vazquez  
Production Scientist  
08 Aug 2018

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
24 Oct 2018