# New England Biolabs Certificate of Analysis 

| Product Name: | ProtoScripte II Reverse Transcriptase |
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| Catalog Number: | M0368S |
| Concentration: | 200,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme that will incorporate 1 nmol of dTTP into an acid-insoluble form in 10 minutes at $37^{\circ} \mathrm{C}$. |
| Packaging Lot Number: | 10226652 |
| Expiration Date: | 10/2025 |
| Storage Temperature: | $-20^{\circ} \mathrm{C}$ |
| Storage Conditions: | 20 mM Tris-HCl, $100 \mathrm{mM} \mathrm{NaCl}, 1 \mathrm{mM}$ DTT, 0.1 mM EDTA, 0.01 \% IGEPAL® CA-630, 50 \% Glycerol, (pH 7.5 @ $25^{\circ} \mathrm{C}$ ) |
| Specification Version: | PS-M0368S/L/X v2.0 |


| ProtoScript® II Reverse Transcriptase Component List |  |  |  |
| :--- | :--- | :--- | :--- |
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M0368SVIAL | ProtoScript® II Reverse Transcriptase | 10211647 | Pass |
| B1034AVIAL | 10X DTT | 10221422 | Pass |
| B0368SVIAL | ProtoScript® II Reverse Transcriptase Reaction <br> Buffer | 10220986 | Pass |


| Assay Name/Specification | Lot \# 10226652 |
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| Endonuclease Activity (Nicking) <br> A $50 \mu \mathrm{l}$ reaction in ProtoScripte II Reverse Transcriptase Reaction Buffer containing $1 \mu \mathrm{~g}$ of supercoiled PhiX174 DNA and a minimum of 200 units of ProtoScript(®) II Reverse Transcriptase incubated for 4 hours at $37^{\circ} \mathrm{C}$ results in $<10 \%$ conversion to the nicked form as determined by agarose gel electrophoresis. | Pass |
| Exonuclease Activity (Radioactivity Release) <br> A $50 \mu \mathrm{l}$ reaction in ProtoScript® II Reverse Transcriptase Reaction Buffer containing $1 \mu \mathrm{~g}$ of a mixture of single and double-stranded [ $\left.{ }^{3} \mathrm{H}\right] \mathrm{E}$. coli DNA and a minimum of 200 units of ProtoScript® II Reverse Transcriptase incubated for 4 hours at $37^{\circ} \mathrm{C}$ releases $<0.1 \%$ of the total radioactivity. | Pass |
| Non-Specific DNase Activity (16 Hour) <br> A $50 \mu$ l reaction in NEBuffer 2 containing $1 \mu \mathrm{~g}$ of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 200 units of ProtoScript®® II Reverse Transcriptase incubated for 16 hours at $37^{\circ} \mathrm{C}$ results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |



This product has been tested and shown to be in compliance with all specifications.
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Michael Tonello
Packaging Quality Control Inspector
13 Feb 2024

M0368S / Lot: 10226652

