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## New England Biolabs Certificate of Analysis

Product Name: M-MuLV Reverse Transcriptase

Catalog Number: M0253L
Concentration: 200,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to incorporate

1 nmol of dTTP into an acid-insoluble form in 10 minutes at 37°C.

Packaging Lot Number: 10145565
Expiration Date: 03/2024
Storage Temperature: -20°C

Storage Conditions: 50 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 0.1 % IGEPAL®

CA-630, 50 % Glycerol, (pH 7.6 @ 25°C)

Specification Version: PS-M0253S/L v2.0

M-MuLV Reverse Transcriptase Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0253LVIAL	M-MuLV Reverse Transcriptase	10143608	Pass	
B0253SVIAL	M-MuLV Reverse Transcriptase Reaction Buffer	10131962	Pass	

Assay Name/Specification	Lot # 10145565
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in M-MuLV Reverse Transcriptase Reaction Buffer containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 200 units of M-MuLV Reverse Transcriptase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in M-MuLV Reverse Transcriptase Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 200 units of M-MuLV Reverse Transcriptase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in M-MuLV Reverse Transcriptase Reaction Buffer containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 200 units of M-MuLV Reverse Transcriptase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass



M0253L / Lot: 10145565 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

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Christie Vazquez Production Scientist 31 Mar 2022 Michael Tonello

Packaging Quality Control Inspector

31 Mar 2022

