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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.

Lot Number: 10048416
Expiration Date: 03/2021
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 v1.0

M-MuLV Reverse Transcriptase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0253LVIAL	M-MuLV Reverse Transcriptase	10040808	Pass	
B0253SVIAL	M-MuLV Reverse Transcriptase Reaction Buffer	10026291	Pass	

Assay Name/Specification	Lot # 10048416
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
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in M-MuLV Reverse Transcriptase Reaction Buffer containing 1 μg of T3 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



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

Tony Spear-Alfonso Production Scientist

15 Nov 2018

Michael Tonello

Packaging Quality Control Inspector

26 Jun 2019

