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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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:	10072154
Expiration Date:	03/2022
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℃)
Specification Version:	PS-M0253S/L v2.0

M-MuLV Reverse Transcriptase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0253LVIAL	M-MuLV Reverse Transcriptase	10072028	Pass	
B0253SVIAL	M-MuLV Reverse Transcriptase Reaction Buffer	10059259	Pass	

Assay Name/Specification	Lot # 10072154
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 [³ H] 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 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





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Assay Name/Specification	Lot # 10072154
RNAse Activity Assay (2 Hour Digestion)	Pass
A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	
and a minimum of 1 µl of M-MuLV Reverse Transcriptase incubated for 2 hours at 37°C	
results in no detectable degradation of the RNA as determined by gel electrophoresis	
using fluorescent detection.	

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

hästie Vanguez

Christie Vazquez Production Scientist 27 May 2020

Michae

Michael Tonello Packaging Quality Control Inspector 27 May 2020

