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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:	M0253S
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:	10034500
Expiration Date:	09/2020
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 v1.0

M-MuLV Reverse Transcriptase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0253SVIAL	M-MuLV Reverse Transcriptase	10020414	Pass	
B0253SVIAL	M-MuLV Reverse Transcriptase Reaction Buffer	10026291	Pass	

Assay Name/Specification	Lot # 10034500
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 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 # 10034500
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.

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Tony Spear-Alfonso Production Scientist 04 Oct 2018

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Minichiello Packaging Quality Control Inspector 01 Feb 2019

