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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.
Packaging Lot Number:	10111027
Expiration Date:	05/2023
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	
M0253SVIAL	M-MuLV Reverse Transcriptase	10108925	Pass	
B0253SVIAL	M-MuLV Reverse Transcriptase Reaction Buffer	10104588	Pass	

Assay Name/Specification	Lot # 10111027
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
RNAse Activity Assay (2 Hour Digestion) A 10 μ I reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ I 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.	Pass





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Assay Name/Specification	Lot # 10111027
Endonuclease Activity (Nicking)	Pass
A 50 μ I reaction in M-MuLV Reverse Transcriptase Reaction Buffer containing 1 μ g 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.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

hästie Vazanez

Christie Vazquez Production Scientist 14 Jul 2021

Michae

Michael Tonello Packaging Quality Control Inspector 14 Jul 2021

