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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: | 10051884 |
| Expiration Date: | 07/2021 |
| 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℃) |
| 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 | 10046980 | Pass | |
| B0253SVIAL | M-MuLV Reverse Transcriptase Reaction Buffer | 10026291 | Pass | |

| Assay Name/Specification | Lot # 10051884 |
|---|----------------|
| 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 |
| 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) | Pass |





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| Assay Name/Specification | Lot # 10051884 |
|---|----------------|
| 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. | |

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

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Tony Spear-Alfonso Production Scientist 15 Nov 2018

Michae 2. 1

Michael Tonello Packaging Quality Control Inspector 14 Aug 2019

