

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.

Lot Number: 10040978
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 | 10036288 | Pass | |
| B0253SVIAL | M-MuLV Reverse Transcriptase Reaction Buffer | 10026291 | Pass | |

| Assay Name/Specification | Lot # 10040978 |
|---|----------------|
| 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

04 Jun 2019

