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: AMV Reverse Transcriptase

Catalog #: M0277S/L
Concentration: 10,000 units/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 #:
 0201709

 Assay Date:
 09/2017

 Expiration Date:
 9/2019

 Storage Temp:
 -20°C

Storage Conditions: 200 mM KPO₄, 2 mM DTT, 0.2 % Triton®X-100, 50 % Glycerol, (pH 7.2 @ 25°C)

Specification Version: PS-M0277S/L v1.0
Effective Date: 04 Apr 2017

Assay Name/Specification (minimum release criteria)	Lot #0201709
Endonuclease Activity (Nicking) - A 50 μl reaction in AMV Reverse Transcriptase Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of AMV 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 μ l reaction in AMV Reverse Transcriptase Reaction Buffer containing 1 μ g of a mixture of single and double-stranded [3 H] <i>E. coli</i> DNA and a minimum of 50 units of AMV 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 NEBuffer 2 containing 1 µg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 10 units of AMV 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 (4 Hour Digestion) - A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l of AMV Reverse Transcriptase is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

Authorized by
Derek Robinson

04 Apr 2017

nga.
ISO 9001
Registered
Quality





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