

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 Number: M0277S
Concentration: 10,000 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: 10074618
Expiration Date: 01/2022
Storage Temperature: -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 v2.0

AMV Reverse Transcriptase Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0277SVIAL	AMV Reverse Transcriptase	10072041	Pass	
B0277AVIAL	AMV Reverse Transcriptase Reaction Buffer	10072362	Pass	

Assay Name/Specification	Lot # 10074618
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 µl reaction in AMV Reverse Transcriptase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli 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 or T7 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)	Pass



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

Christie Vazquez Production Scientist

20 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

20 Jul 2020

