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## New England Biolabs Certificate of Analysis

Product Name: Exonuclease V (RecBCD)

Catalog Number: M0345L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to produce 1

nmol of acid-soluble deoxyribonucleotide from double-stranded DNA in

30 minutes at 37°C in a total reaction volume of 50 µl.

Lot Number:10042754Expiration Date:04/2021Storage Temperature:-20°C

Storage Conditions: 50 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

0.1% Triton®X-100, (pH 7.5 @ 25°C)

Specification Version: PS-M0345S/L v1.0

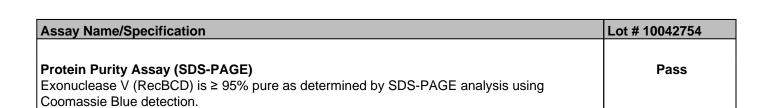
Exonuclease V (RecBCD) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10034352	Pass	
M0345LVIAL	Exonuclease V (RecBCD)	10041303	Pass	
B7004SVIAL	NEBuffer™ 4	10026208	Pass	

Assay Name/Specification	Lot # 10042754
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 10 units of Exonuclease V (RecBCD) 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
Endonuclease Activity (Nicked Double-Stranded DNA) A 50 μl reaction in NEBuffer 4 supplemented with 1 mM ATP containing 1 μg of nicked PhiX174 RF II DNA and a minimum of 50 units of Exonuclease V (RecBCD) incubated for 4 hours at 37°C results in <10% loss in PhiX174 RF II DNA as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 4 supplemented with 1 mM ATP containing 1 μg of supercoiled PhiX174 RF I DNA and a minimum of 100 units of Exonuclease V (RecBCD) incubated for 4 hours at 37°C results in <10% loss in supercoiled DNA 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

23 Oct 2018

Michael Tonello

Packaging Quality Control Inspector

10 May 2019

