

COVERY 240 County Road
UINE 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: Exonuclease V (RecBCD)

Catalog Number: M0345S
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.

Packaging Lot Number: 10058503
Expiration Date: 08/2021
Storage 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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10058045	Pass	
M0345SVIAL	Exonuclease V (RecBCD)	10051890	Pass	
B7004SVIAL	NEBuffer™ 4	10061301	Pass	

Assay Name/Specification	Lot # 10058503
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
Protein Purity Assay (SDS-PAGE) Exonuclease V (RecBCD) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion)	Pass



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gel electrophoresis using fluorescent detection.

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

John Greci

Production Scientist

19 Aug 2019

Michael Tonello

Packaging Quality Control Inspector

17 Dec 2019

