

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: Exonuclease VIII, truncated

Catalog Number: M0545L
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

a total reaction volume of 50 µl in 30 minutes at 37°C in 1X NEBuffer 4 with 0.15 mM sonicated duplex [³H]-DNA.

Lot Number: 10051173
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-M0545S/L v1.0

Exonuclease VIII, truncated Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0545LVIAL	Exonuclease VIII, truncated	10051172	Pass
B7004SVIAL	NEBuffer™ 4	10043904	Pass

Assay Name/Specification	Lot # 10051173
Endonuclease Activity (Circular Single Stranded DNA) A 50 μl reaction in NEBuffer 4 containing 1 μg of M13mp18 Single-stranded DNA and a minimum of 30 units of Exonuclease VIII, truncated incubated for 4 hours at 37°C results in <10% conversion to linear DNA as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicked Circular DNA) A 50 µl reaction in NEBuffer 4 containing 1 µg of PhiX174 RF II DNA and a minimum of 30 units of Exonuclease VIII, truncated incubated for 4 hours at 37°C results in <10% conversion to linear DNA as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 4 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of Exonuclease VIII, truncated incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass



M0545L / Lot: 10051173

Page 1 of 2

Lot # 10051173
Pass
Pass

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

Production Scientist

06 Jun 2019

Michael Tonello

Packaging Quality Control Inspector

29 Aug 2019

