

be INSPIRED drive DISCOVERY stay GENUINE

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:	Endonuclease IV
Catalog Number:	M0304L
Concentration:	10,000 U/mI
Unit Definition:	One unit is defined as the amount of enzyme required to cleave 1 pmol of a 34-mer oligonucleotide duplex containing a single AP site in a total reaction volume of 10 μ l in 1 hour at 37°C.
Lot Number:	10038477
Expiration Date:	02/2020
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 0.15 % Triton®X-100, 200 μg/ml BSA, (pH 7.4 @ 25°C)
Specification Version:	PS-M0304S/L v1.0

Endonuclease IV Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0304LVIAL	Endonuclease IV	10038478	Pass	
B7003SVIAL	NEBuffer™ 3	0101802	Pass	

Assay Name/Specification	Lot # 10038477
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 3 containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 100 units of Endonuclease IV 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 NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 units of Endonuclease IV 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 3 containing 1 µg of Lambda-HindIII DNA and a minimum of 100 units of Endonuclease IV incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Endonuclease IV is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie	Pass





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Assay Name/Specification	Lot # 10038477
Blue detection.	

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

Lauren Higgins

Lauren Sears Higgins **Production Scientist** 28 Feb 2019

Michae TN. 1

Michael Tonello Packaging Quality Control Inspector 01 Mar 2019

