

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: M0304S
Concentration: 10,000 U/ml

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 µl in 1 hour at 37°C.

Lot Number: 10028880
Expiration Date: 11/2019
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	
M0304SVIAL	Endonuclease IV	10028881	Pass	
B7003SVIAL	NEBuffer™ 3	0111804	Pass	

Assay Name/Specification	Lot # 10028880
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 3 containing 1 μg of supercoiled PhiX174 DNA and a	Pass
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.	
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [³H] 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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Lauren Higgins

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Assay Name/Specification	Lot # 10028880
Blue detection.	

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

Lauren Sears Higgins Production Scientist

16 Nov 2018

Michael Tonello

Packaging Quality Control Inspector

04 Dec 2018

