

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:	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 μ l in 1 hour at 37°C.
Packaging Lot Number:	10117728
Expiration Date:	08/2022
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	10117729	Pass	
B7003SVIAL	NEBuffer™ 3	10091037	Pass	

Assay Name/Specification	Lot # 10117728
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 μ I reaction in NEBuffer 3 containing 1 μ g 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 Blue detection.	Pass
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	Pass





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Assay Name/Specification	Lot # 10117728
<10% conversion to the nicked form as determined by agarose gel electrophoresis.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lauren Kiggins

Lauren Higgins Production Scientist 08 Sep 2021

Josh Hersey

Packaging Quality Control Inspector 08 Sep 2021

