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New England Biolabs Certificate of Analysis

Product Name: Endonuclease IV

Catalog Number: M0304L
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.

Packaging Lot Number: 10088354
Expiration Date: 11/2021
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	10088352	Pass	
B7003SVIAL	NEBuffer™ 3	10048944	Pass	

Assay Name/Specification	Lot # 10088354
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 3 containing 1 µg 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 [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



M0304L / Lot: 10088354

Page 1 of 2



Assay Name/Specification	Lot # 10088354
Blue detection.	

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

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Lauren Higgins Production Scientist 20 Nov 2020

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Michael Tonello

Packaging Quality Control Inspector

20 Nov 2020