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New England Biolabs Certificate of Analysis

Product Name: Tth Endonuclease IV

Catalog Number: M0294S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to cleave 1

pmol of a 60-mer oligonucleotide duplex containing a single AP site

in a total reaction volume of 10 µl in 1 hour at 65°C.

Packaging Lot Number: 10206085
Expiration Date: 08/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 0.1 %

Triton®X-100 , 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0294S v2.0

Tth Endonuclease IV Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0294SVIAL	Tth Endonuclease IV	10201520	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10187437	Pass	

Assay Name/Specification	Lot # 10206085
Endonuclease Activity (Nicking) A 50 μl reaction in ThermoPol® Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 100 units of Tth 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 100 units of Tth 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 ThermoPol® Reaction Buffer containing 1 μg of Lambda-HindIII DNA and a minimum of 100 units of Tth 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

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



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Lauren Sears Higgins Production Scientist 18 Aug 2023 Michael Tonello Packaging Quality Control Inspector 21 Aug 2023



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