

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: 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: 10092356
Expiration Date: 12/2022
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	10092357	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10067018	Pass	

Assay Name/Specification	Lot # 10092356
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
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
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.



M0294S / Lot: 10092356

Page 1 of 2

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 Higgins **Production Scientist** 21 Dec 2020

Michael Tonello

Packaging Quality Control Inspector 21 Dec 2020

M0294S / Lot: 10092356

Page 2 of 2