

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: Tma Endonuclease III

Catalog #: M0291S/L
Concentration: 10,000 units/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 μ l in 1 hour at 65°C.

 Lot #:
 0011707

 Assay Date:
 07/2017

 Expiration Date:
 07/2019

 Storage Temp:
 -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-M0291S/L v1.0
Effective Date: 01 May 2018

Assay Name/Specification (minimum release criteria)	Lot #0011707
Endonuclease Activity (Nicking) - A 50 μ l reaction in ThermoPol® Reaction Buffer containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 100 units of Tma Endonuclease III 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 μ l reaction in NEBuffer 1 containing 1 μ g of a mixture of single and double-stranded [3 H] <i>E. coli</i> DNA and a minimum of 100 units of Tma Endonuclease III incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in ThermoPol® Reaction Buffer containing 1 μ g of Lambda-HindIII DNA and a minimum of 100 units of Tma Endonuclease III incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

Authorized by Derek Robinson 01 May 2018







Inspected by
Lauren Higgins
17 Jul 2017