

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 VIII

Catalog Number: M0299L 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 in 1X Endonuclease VIII Reaction Buffer containing 10 pmol of

fluorescently labeled oligonucleotide duplex.

Packaging Lot Number: 10100992
Expiration Date: 03/2022
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 0.1 mM EDTA, 50 % Glycerol, (pH 8.0 @

25°C)

Specification Version: PS-M0299S/L v1.0

Endonuclease VIII Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0299LVIAL	Endonuclease VIII	10100495	Pass	
B0299SVIAL	Endonuclease VIII Reaction Buffer	10101000	Pass	

Assay Name/Specification	Lot # 10100992
Protein Purity Assay (SDS-PAGE)	Pass
Endonuclease VIII is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in Endonuclease VIII Reaction Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 30 units of Endonuclease VIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in Endonuclease VIII Reaction Buffer containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 10 units of Endonuclease VIII incubated for 4 hours at 37°C releases <0.5% of the total radioactivity.	Pass

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



M0299L / Lot: 10100992 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

Lauren Higgins

NEW ENGLAND

15 Mar 2021

Josh Hersey

Packaging Quality Control Inspector

15 Mar 2021

