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## New England Biolabs Certificate of Analysis

Product Name: Endonuclease VIII

Catalog Number: M0299S 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: 10100494
Expiration Date: 01/2022
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
M0299SVIAL	Endonuclease VIII	10096936	Pass
B0299SVIAL	Endonuclease VIII Reaction Buffer	10086915	Pass

Assay Name/Specification	Lot # 10100494
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.



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Lauren Higgins

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06 May 2021

Michael Tonello

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06 May 2021