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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: 10220958
Expiration Date: 07/2024
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                 | 10197445   | Pass                 |
| B0299SVIAL                       | Endonuclease VIII Reaction Buffer | 10193047   | Pass                 |

| Assay Name/Specification   | Lot # 10220958 |
|--|----------------|
| 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           |
| 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           |
| Protein Purity Assay (SDS-PAGE) Endonuclease VIII is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.   | Pass           |

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



M0299S / Lot: 10220958 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 Sears Higgins Production Scientist

11 Sep 2023

Michael Tonello

Packaging Quality Control Inspector

04 Jan 2024



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