

New England Biolabs Certificate of Analysis

Product Name: *Endonuclease V*
Catalog Number: *M0305S*
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 deoxyinosine site in a total reaction volume of 10 µl in 1 hour at 37°C.*
Packaging Lot Number: *10176495*
Expiration Date: *01/2025*
Storage Temperature: *-20°C*
Storage Conditions: *10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.15% Triton®X-100, 200 µg/ml BSA, (pH 7.4 @ 25°C)*
Specification Version: *PS-M0305S/L v1.0*

Endonuclease V Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0305SVIAL	Endonuclease V	10175380	Pass
B7004SVIAL	NEBuffer™ 4	10161527	Pass

Assay Name/Specification	Lot # 10176495
Protein Purity Assay (SDS-PAGE) Endonuclease V is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 units of Endonuclease V incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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

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Jamie Souza
Production Scientist
30 Dec 2022



Michael Tonello
Packaging Quality Control Inspector
03 Jan 2023