

be INSPIRED drive DISCOVERY stay GENUINE

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:	T4 PDG (T4 Endonuclease V)
Catalog Number:	M0308S
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme that catalyzes the conversion of 0.5 $\mu$ g of UV-irradiated supercoiled pUC19 DNA to >95% nicked plasmid in a total reaction volume of 20 $\mu$ l in 30 minutes at 37°C. Nicking is assessed by agarose gel electrophoresis. Irradiated plasmid contains an average of 3-5 pyrimidine dimers.
Packaging Lot Number:	10189747
Expiration Date:	04/2025
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, (pH 7.4 @ 25℃)
Specification Version:	PS-M0308S/L v1.0

T4 PDG (T4 Endonuclease V) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0308SVIAL	T4 PDG (T4 Endonuclease V)	10185190	Pass	
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10173665	Pass	
B0308SVIAL	T4 PDG Reaction Buffer	10186947	Pass	

Assay Name/Specification	Lot # 10189747
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 30 units of T4 PDG (T4 Endonuclease V) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 ul reaction in NEBuffer 2.1 containing 1 ug of Lambda-HindIII DNA and a minimum of 100 units of T4 PDG (T4 Endonuclease V) 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) T4 PDG (T4 Endonuclease V) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass





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

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dauren Higgins

Lauren Sears Higgins Production Scientist 04 Apr 2023

Josh Hersey

Packaging Quality Control Inspector 02 Jun 2023

