

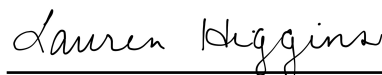
New England Biolabs Certificate of Analysis

Product Name: T4 PDG (T4 Endonuclease V)
Catalog #: M0308S/L
Concentration: 10,000 units/ml
Unit Definition: One unit is defined as the amount of enzyme that catalyzes the conversion of 0.5 µg of UV-irradiated supercoiled pUC19 DNA to >95% nicked plasmid in a total reaction volume of 20 µl in 30 minutes at 37°C. Nicking is assessed by agarose gel electrophoresis. Irradiated plasmid contains an average of 3-5 pyrimidine dimers.
Lot #: 0051804
Assay Date: 04/2018
Expiration Date: 04/2020
Storage Temp: -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°C)
Specification Version: PS-M0308S/L v1.0
Effective Date: 11 Jun 2018

| Assay Name/Specification (minimum release criteria) | Lot #0051804 |
|--|--------------|
| Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [³ H] <i>E. coli</i> 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 |



Authorized by
Derek Robinson
11 Jun 2018



Inspected by
Lauren Higgins
01 Apr 2018

