

New England Biolabs Certificate of Analysis

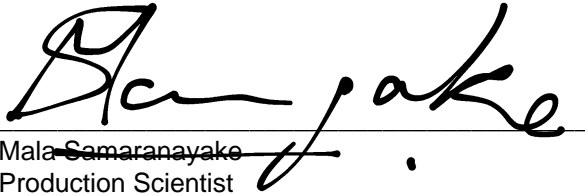
Product Name: LpnPI
Catalog Number: R0663S
Concentration: 5,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of pBR322 (dcm+) DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10094050
Expiration Date: 01/2023
Storage Temperature: -20°C
Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 500 µg/ml BSA, (pH 7.4 @ 25°C)
Specification Version: PS-R0663S/L v2.0

| LpnPI Component List | | | |
|----------------------|---------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| S0538SVIAL | Enzyme Activator Solution | 10094606 | Pass |
| R0663SVIAL | LpnPI | 10094051 | Pass |
| B7204SVIAL | CutSmart® Buffer | 10092681 | Pass |

| Assay Name/Specification | Lot # 10094050 |
|---|----------------|
| <p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 15 units of LpnPI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p> | Pass |
| <p>Non-Specific DNase Activity (16 hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of pBR322 DNA and a minimum of 5 units of LpnPI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.</p> | Pass |
| <p>Protein Purity Assay (SDS-PAGE) LpnPI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.</p> | Pass |

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

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Production Scientist
19 Jan 2021



Michael Tonello
Packaging Quality Control Inspector
19 Jan 2021