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: 10108466
Expiration Date: 05/2023
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

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>S0538SVIAL</td>
<td>Enzyme Activator Solution</td>
<td>10110260</td>
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<tr>
<td>R0663SVIAL</td>
<td>LpnPI</td>
<td>10108465</td>
<td>Pass</td>
</tr>
<tr>
<td>B6004SVIAL</td>
<td>rCutSmart™ Buffer</td>
<td>10107576</td>
<td>Pass</td>
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</table>

Assay Name/Specification

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. Lot # 10108466
Pass

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. Lot # 10108466
Pass

Protein Purity Assay (SDS-PAGE)
LpnPI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection. Lot # 10108466
Pass

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

Mala Samaranayake  
Production Scientist  
24 May 2021

Michael Tonello  
Packaging Quality Control Inspector  
24 May 2021