

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: LpnPl
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: 10203170
Expiration Date: 06/2025
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	10195303	Pass	
R0663SVIAL	LpnPI	10200209	Pass	
B6004SVIAL	rCutSmart™ Buffer	10198644	Pass	

Assay Name/Specification	Lot # 10203170
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.	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.	Pass
Protein Purity Assay (SDS-PAGE) LpnPI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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



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YunJie Sun

Production Scientist

13 Jul 2023

Michael Tonello

Packaging Quality Control Inspector

29 Aug 2023