

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.

Lot Number: 10008870
Expiration Date: 05/2020
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol , 500 μ g/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	10008887	Pass	
R0663SVIAL	LpnPI	10008884	Pass	
B7204SVIAL	CutSmart® Buffer	3051803	Pass	

Assay Name/Specification	Lot # 10008870
Protein Purity Assay (SDS-PAGE)	Pass
LpnPI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Exonuclease Activity (Radioactivity Release)	Pass
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.	
Non-Specific DNase Activity (16 hour)	Pass
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.	

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



R0663S / Lot: 10008870 Page 1 of 2



Mala-Samaranayake
Production Scientist
24 May 2018

Michael Tonello Packaging Quality Control Inspector

06 Jun 2018