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: LpnPI
Catalog #: R0663S/L
Concentration: 5,000 units/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 μ l.

 Lot #:
 0011303

 Assay Date:
 03/2013

 Expiration Date:
 03/2015

 Storage Temp:
 -20 °C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 µg/ml BSA

Specification Version: PS-R0663S/L v1.0
Effective Date: 22 Oct 2013

Assay Name/Specification (minimum release criteria)	Lot #0011303
Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 4 containing 1 μ g of a mixture of single and double-stranded [3 H] <i>E. coli</i> 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 NEBuffer 4 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

^{*} The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by Derek Robinson 22 Oct 2013







Inspected by Mala Samaranayake 27 Mar 2013