

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	Nlalli
Catalog Number:	R0125S
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 $\mu$ g of PhiX174 RF I DNA in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Packaging Lot Number:	10090027
Expiration Date:	03/2022
Storage Temperature:	-80°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-R0125S/L v3.0

Nlalll Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0125SVIAL	NIaIII	10069832	Pass	
B7204SVIAL	CutSmart® Buffer	10085424	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084971	Pass	

Assay Name/Specification	Lot # 10090027
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 100 units of NlaIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> After a 10-fold over-digestion of PhiX174 DNA with NIaIII, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 25°C. Of these ligated fragments, >95% can be recut with NIaIII.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of PhiX174 DNA and a minimum of 50 Units of NIaIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) NIaIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass





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detection.	

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

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Penghua Zhang Production Scientist 04 Nov 2020

Michae

Michael Tonello Packaging Quality Control Inspector 04 Nov 2020

