

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 μ g of PhiX174 RF I DNA in 1 hour at 37°C in a total reaction volume of 50 μ I.
Packaging Lot Number:	10077698
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	10074632	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10071082	Pass	

Assay Name/Specification	Lot # 10077698
Protein Purity Assay (SDS-PAGE) NIaIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [™] 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
Ligation and Recutting (Terminal Integrity) 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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of NIaIII incubated for	Pass





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Assay Name/Specification	Lot # 10077698
4 hours at 37°C releases <0.1% of the total radioactivity.	

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.

Penghua Zhang Production Scientist 29 Jul 2020

Michae

Michael Tonello Packaging Quality Control Inspector 29 Jul 2020

