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## 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 µg

of PhiX174 RF I DNA in 1 hour at 37°C in a total reaction volume of

50 μl.

Packaging Lot Number: 10242557
Expiration Date: 05/2026
Storage Temperature: -80°C

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

Glycerol , 500  $\mu$ g/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0125S/L v3.0

NIallI Component List				
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result	
R0125SVIAL	NIaIII	10237983	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10236230	Pass	
B6004SVIAL	rCutSmart™ Buffer	10237088	Pass	

Assay Name/Specification	Lot # 10242557
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 100 units of NlaIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	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
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 NlalII 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) NIallI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass



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Assay Name/Specification	Lot # 10242557
detection.	

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

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Ana Egana Production Scientist

07 May 2024

Michael Tonello

Packaging Quality Control Inspector

07 May 2024