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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.

Lot Number: 10021445
Expiration Date: 08/2020
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

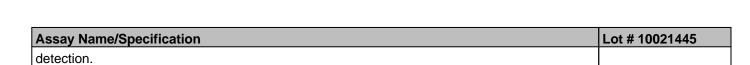
NIalli Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0125SVIAL	NIaIII	10021077	Pass	
B7204SVIAL	CutSmart® Buffer	10031563	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021135	Pass	

Assay Name/Specification	Lot # 10021445
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 NlaIII, >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 NlaIII.	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) NlallI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass



R0125S / Lot: 10021445

Page 1 of 2



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

Jianying Luo Production Scientist

27 Aug 2018

Mary Conlon

Packaging Quality Control Inspector

27 Dec 2018



R0125S / Lot: 10021445

Page 2 of 2