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## New England Biolabs Certificate of Analysis

Product Name: Nhel
Catalog Number: R0131S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (HindIII digest) in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10063025
Expiration Date: 12/2021
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0131S/L v1.0

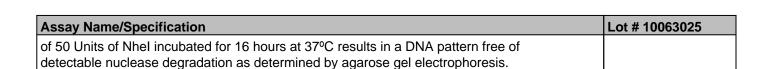
Nhel Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0131SVIAL	Nhel	10063026	Pass	
B7202SVIAL	NEBuffer™ 2.1	10043907	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10064412	Pass	

Assay Name/Specification	Lot # 10063025
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 10 Units of Nhel incubated for 4 hours at 37°C results in <20% conversion	Pass
to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 250 units of Nhel incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	FdSS
<b>Ligation and Recutting (Terminal Integrity)</b> After a 20-fold over-digestion of Lambda HindIII DNA with NheI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with NheI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of Lambda HindIII DNA and a minimum	Pass



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

Jianying Luo Production Scientist

27 Dec 2019

Michael Tonello

Packaging Quality Control Inspector

10 Feb 2020

