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## New England Biolabs Certificate of Analysis

Product Name: Notl
Catalog Number: R0189L
Concentration: 10,000 U/ml

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

of pBC4 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10146679
Expiration Date: 02/2024
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-R0189S/L v1.0

Notl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0189LVIAL	Notl	10141494	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10132772	Pass	
B6003SVIAL	NEBuffer™ r3.1	10132774	Pass	

Assay Name/Specification	Lot # 10146679
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBC4 DNA and a minimum of 100 Units of Notl incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of pBC4 DNA with Notl, >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 Notl.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 Units of Notl incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	. 400
double-stranded [ ³H] E. coli DNA and a minimum of 100 units of Notl incubated for 4	



R0189L / Lot: 10146679

Page 1 of 2



Assay Name/Specification	Lot # 10146679
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.

Penghaa Zhang Production Scientist

24 Mar 2022

Michael Tonello

Packaging Quality Control Inspector

24 Mar 2022