

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:	Notl
Catalog Number:	R0189S
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.
Lot Number:	10014910
Expiration Date:	12/2019
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0189SVIAL	Notl	0551712	Pass	
B7203SVIAL	NEBuffer™ 3.1	0541804	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10010200	Pass	

Assay Name/Specification	Lot # 10014910
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 Units of NotI incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBC4 DNA and a minimum of 100 Units of NotI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of NotI 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 pBC4 DNA with NotI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95%	Pass





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Assay Name/Specification	Lot # 10014910
can be recut with NotI.	

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

Mor

Tony Spear-Alfonso Production Scientist 25 May 2018

Josh Hersey Packaging Quality Control Inspector 03 Jul 2018

