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New England Biolabs Certificate of Analysis

Product Name: NotI

Catalog #: R0189S/L
Concentration: 10,000 units/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 #:
 0551602

 Assay Date:
 02/2016

 Expiration Date:
 2/2018

 Storage Temp:
 -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
Effective Date: 31 Jul 2013

Assay Name/Specification (minimum release criteria) Lot #0551602 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% Pass conversion to the nicked form as determined by agarose gel electrophoresis. Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [3H] E. coli DNA and a minimum of 100 units of NotI incubated for 4 hours Pass at 37°C releases <0.1% of the total radioactivity. Ligation and Recutting (Terminal Integrity) - After a 10-fold over-digestion of pBC4 DNA with Not1, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% Pass can be recut with NotI. 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 Pass nuclease degradation as determined by agarose gel electrophoresis.

Authorized by Derek Robinson 31 Jul 2013

nga.
ISO 9001
Registered
Quality





Inspected by Toby Claus 16 Mar 2016

^{*} The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.