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New England Biolabs Certificate of Analysis

Product Name: AflIII

Catalog #: R0541S/L
Concentration: 10,000 units/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction

volume of 50 μ l.

 Lot #:
 0321409

 Assay Date:
 09/2014

 Expiration Date:
 9/2016

 Storage Temp:
 -20°C

Storage Conditions: 500 mM NaCl, 10 mM Tris-HCl (7.4), 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 200 µg/ml BSA

Specification Version: PS-R0541S/L v1.0
Effective Date: 12 Apr 2013

Assay Name/Specification (minimum release criteria)	Lot #0321409
Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 3.1 containing 1 μ g of a mixture of single and double-stranded [3 H] <i>E. coli</i> DNA and a minimum of 50 units of AfIIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) - After a 5-fold over-digestion of Lambda DNA with AfIIII, >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 AfIIII.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 30 Units of AfIIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

M.W. Southworth

Authorized by Maurice Southworth 12 Apr 2013







Inspected by Kerri Sakowski 01 Oct 2014

Kora Sakawshi

^{*} 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.