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## New England Biolabs Certificate of Analysis

Product Name:	ApeKI
Catalog #:	R0643S/L
Concentration:	5,000 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 75°C in a total reaction volume of 50 μl.
<i>Lot</i> #:	0081603
Assay Date:	03/2016
Expiration Date:	3/2018
Storage Temp:	-20°C
Storage Conditions:	300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 $\mu$ g/ml BSA
Specification Version:	PS-R0643S/L v1.0
Effective Date:	14 Dec 2015

Assay Name/Specification (minimum release criteria)   Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in NEBuffer 3.1 containing 1 μg of a mixture of single and double-stranded [ <sup>3</sup> H] <i>E. coli</i> DNA and a minimum of 15 units of ApeKI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
<b>Non-Specific DNase Activity (16 Hour)</b> - A 50 $\mu$ l reaction in NEBuffer 3.1 containing 1 $\mu$ g of Lambda DNA and a minimum of 10 units of ApeKI incubated for 16 hours at 75°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
<b>Protein Purity Assay (SDS-PAGE)</b> - ApeKI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	

\* 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.

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Authorized by Derek Robinson 14 Dec 2015



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Inspected by Penghua Zhang 16 Mar 2016