

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:	ApeKI
Catalog Number:	R0643S
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 75°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10083942
Expiration Date:	07/2022
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μg/ml BSA
Specification Version:	PS-R0643S/L v1.0

ApeKI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0643SVIAL	АреКІ	10078409	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053972	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10082935	Pass	

Assay Name/Specification	Lot # 10083942
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with ApeKI, >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 ApeKI.	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 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.	Pass
Protein Purity Assay (SDS-PAGE) ApeKI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 15 units of ApeKI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass





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

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Penghua Zhang

Penghda Zhang Production Scientist 18 Sep 2020

Michael Tonello Packaging Quality Control Inspector 18 Sep 2020

