

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: | R0643L |
| 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: | 10091213 |
| 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 | |
| R0643LVIAL | АреКІ | 10078407 | Pass | |
| B7203SVIAL | NEBuffer™ 3.1 | 10085493 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10084973 | Pass | |

| Assay Name/Specification | Lot # 10091213 |
|---|----------------|
| 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 |
| 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 |





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

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Penghua Zhang

Penghua Zhang Production Scientist 23 Nov 2020

Josh Hersey

Packaging Quality Control Inspector 23 Nov 2020

