

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: | Hpall |
|------------------------|--|
| Catalog Number: | R0171M |
| Concentration: | 50,000 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 37°C in a total reaction volume of 50 μ l. |
| Packaging Lot Number: | 10172485 |
| Expiration Date: | 12/2024 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml BSA |
| Specification Version: | PS-R0171M v1.0 |

| Hpall Component List | | | | |
|----------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0171MVIAL | Hpall | 10172486 | Pass | |
| B6004SVIAL | rCutSmart™ Buffer | 10173161 | Pass | |

| Assay Name/Specification | Lot # 10172485 |
|--|----------------|
| Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Hpall, >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 Hpall. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of Lambda DNA and a minimum of 50 Units of Hpall incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |
| Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of Hpall incubated for 4 hours at 37°C releases <0.5% of the total radioactivity. | Pass |

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.





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