

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: | Haelll |
|------------------------|--|
| Catalog Number: | R0108T |
| 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. |
| Lot Number: | 10021241 |
| Expiration Date: | 09/2020 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml BSA |
| Specification Version: | PS-R0108T/M v1.0 |

| Haelll Component List | | | | |
|-----------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0108TVIAL | HaellI | 10020335 | Pass | |
| B7204SVIAL | CutSmart® Buffer | 10013536 | Pass | |
| B7024SVIAL | Gel Loading Dye, Purple (6X) | 10013725 | Pass | |

| Assay Name/Specification | Lot # 10021241 |
|--|----------------|
| 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 HaeIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with HaeIII, >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 HaeIII. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of HaeIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |
| Protein Purity Assay (SDS-PAGE) HaeIII 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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Tony Spear-Alfonso Production Scientist 21 Jun 2018

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Mary Conflon Packaging Quality Control Inspector 05 Sep 2018

