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## New England Biolabs Certificate of Analysis

Product Name: Hinfl
Catalog Number: R0155T
Concentration: 50,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction of 50 μl.

Packaging Lot Number: 10135844
Expiration Date: 01/2024
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-R0155T/M v1.0

| Hinfl Component List   |                       |            |                      |  |
|------------------------|-----------------------|------------|----------------------|--|
| <b>NEB Part Number</b> | Component Description | Lot Number | Individual QC Result |  |
| R0155TVIAL             | Hinfl                 | 10135845   | Pass                 |  |
| B6004SVIAL             | rCutSmart™ Buffer     | 10121395   | Pass                 |  |

| Assay Name/Specification  | Lot # 10135844 |
|---|----------------|
| Protein Purity Assay (SDS-PAGE)   | Pass           |
| Hinfl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.   |                |
| Exonuclease Activity (Radioactivity Release)  | Pass           |
| A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 100 units of Hinfl incubated for   |                |
| 4 hours at 37°C releases <0.1% of the total radioactivity.  |                |
| Non-Specific DNase Activity (16 Hour)   | Pass           |
| A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of   |                |
| detectable nuclease degradation as determined by agarose gel electrophoresis.   |                |
| Ligation and Recutting (Terminal Integrity)   | Pass           |
| After a 20-fold over-digestion of Lambda DNA with Hinfl, >95% of the DNA fragments  |                |
|   |                |
| A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of Hinfl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.  Ligation and Recutting (Terminal Integrity) |                |

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



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Penghua Zhang Production Scientist

19 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

19 Jan 2022



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