

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: | Fnu4HI |
|------------------------|---|
| Catalog Number: | R0178L |
| Concentration: | 10,000 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 volume of 50 μl. |
| Packaging Lot Number: | 10091241 |
| Expiration Date: | 04/2022 |
| 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-R0178S/L v1.0 |

| Fnu4HI Component List | | | | |
|-----------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0178LVIAL | Fnu4HI | 10070977 | Pass | |
| B7204SVIAL | CutSmart® Buffer | 10089397 | Pass | |

| Assay Name/Specification | Lot # 10091241 |
|---|----------------|
| Protein Purity Assay (SDS-PAGE) Fnu4HI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of Lambda DNA and a minimum of 30 Units of Fnu4HI 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 10 units of Fnu4HI 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 Fnu4HI, 95% can be recut with Fnu4HI. | Pass |

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





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Penghua Zhang Production Scientist 17 Nov 2020

Josh Hersey

Packaging Quality Control Inspector 17 Nov 2020

