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New England Biolabs Certificate of Analysis

Product Name: Bmtl-HF®
Catalog Number: R3658S
Concentration: 20,000 U/ml

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

of pXba in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10129425
Expiration Date: 11/2022
Storage Temperature: -80°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-R3658S/L v2.0

| Bmtl-HF® Component List | | | | |
|-------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R3658SVIAL | Bmtl-HF® | 10129430 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10121392 | Pass | |
| B6004SVIAL | rCutSmart™ Buffer | 10126633 | Pass | |

| Assay Name/Specification | Lot # 10129425 |
|--|----------------|
| Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of pXba DNA and a minimum of | Pass |
| 100 Units of Bmtl-HF™ incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | |
| Exonuclease Activity (Radioactivity Release) 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 200 units of Bmtl-HF™ 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 pXba DNA with Bmtl-HF™, >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 Bmtl-HF™. | 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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Pengha Zhang Production Scientist 21 Dec 2021 Michael Tonello

Packaging Quality Control Inspector

21 Dec 2021

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