

New England Biolabs Certificate of Analysis

Product Name: Bmtl-HF®
Catalog Number: R3658L
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.
Lot Number: 10046395
Expiration Date: 04/2021
Storage Temperature: -20°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 v1.0

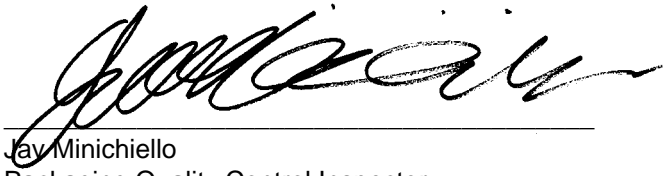
Bmtl-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3658LVIAL	Bmtl-HF®	10041280	Pass
B7204SVIAL	CutSmart® Buffer	10042966	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10042958	Pass

Assay Name/Specification	Lot # 10046395
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 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
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pXba DNA and a minimum of 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.	Pass

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



Jianying Luo
Production Scientist
05 Apr 2019



Jay Minichiello
Packaging Quality Control Inspector
31 May 2019