

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: 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.

Lot Number: 10041278
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	
R3658SVIAL	BmtI-HF®	10041279	Pass	
B7204SVIAL	CutSmart® Buffer	10036666	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10038708	Pass	

Assay Name/Specification	Lot # 10041278
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 BmtI-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 BmtI-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.



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Production Scientist 05 Mar 2019 Michael Tonello

Packaging Quality Control Inspector

19 Apr 2019