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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 rCutSmart Buffer in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10161973
Expiration Date: 08/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

500 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R3658S/L v3.0

Bmtl-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3658LVIAL	Bmtl-HF®	10161972	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10162784	Pass	
B6004SVIAL	rCutSmart™ Buffer	10164465	Pass	

Assay Name/Specification	Lot # 10161973
qPCR DNA Contamination (E. coli Genomic) A minimum of 20 units of Bmtl-HF® is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass
Functional Testing (15 minute Digest) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of pXba DNA and 1 µl of Bmtl-HF® incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ 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



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for 4 hours at 37°C releases <0.1% of the total radioactivity.

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.

YunJie Sun \
Production Scientist

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Michael Tonello

Packaging Quality Control Inspector

27 Oct 2022



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