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New England Biolabs Certificate of Analysis

Product Name: Mboll
Catalog Number: R0148L
Concentration: 5,000 U/ml

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

of Lambda DNA (dam-) in 1 hour at 37°C in a total reaction volume of

50 μl.

Packaging Lot Number: 10225986
Expiration Date: 10/2025
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0148S/L v1.0

Mboll Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0148LVIAL	Mboll	10209158	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10221112	Pass	
B6004SVIAL	rCutSmart™ Buffer	10222661	Pass	

Assay Name/Specification	Lot # 10225986
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 5 units of MboII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda dam- DNA with MboII, ~50% 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 MboII.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda dam- DNA and a minimum of 5 Units of Mboll incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE)	Pass



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Assay Name/Specification	Lot # 10225986
MboII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	
detection.	

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

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YunJie Sun \
Production Scientist
10 Oct 2023

Michael Tonello Packaging Quality Control Inspector 02 Jan 2024

