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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: 10129258
Expiration Date: 11/2023
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0148LVIAL	Mboll	10129257	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10121396	Pass	
B6004SVIAL	rCutSmart™ Buffer	10127377	Pass	

Assay Name/Specification	Lot # 10129258
Protein Purity Assay (SDS-PAGE)	Pass
MboII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
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 Mboll 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	Pass



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Assay Name/Specification	Lot # 10129258
free of detectable nuclease degradation as determined by agarose gel	
electrophoresis.	

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.

Penghua Zhang Production Scientist

08 Dec 2021

Michael Tonello

Packaging Quality Control Inspector

08 Dec 2021



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