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## New England Biolabs Certificate of Analysis

Product Name: Mboll
Catalog Number: R0148S
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: 10129260
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>	<b>Component Description</b>	Lot Number	Individual QC Result	
R0148SVIAL	Mboll	10129259	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10131976	Pass	
B6004SVIAL	rCutSmart™ Buffer	10131975	Pass	

Assay Name/Specification	Lot # 10129260
Ligation and Recutting (Terminal Integrity)  After a 10-fold over-digestion of Lambda dam- DNA with Mboll, ~50% of the DNA	Pass
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with MboII.	
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
Protein Purity Assay (SDS-PAGE) Mboll is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda dam- DNA and a	Pass
minimum of 5 Units of MboII incubated for 16 hours at 37°C results in a DNA pattern	



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Assay Name/Specification	Lot # 10129260
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.

Penghaa Zhang Production Scientist

04 Mar 2022

Josh Hersey

Packaging Quality Control Inspector

04 Mar 2022



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