

New England Biolabs Certificate of Analysis

Product Name: MboII

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: 10108399

Expiration Date: 05/2023

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

MboII Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0148LVIAL	MboII	10108397	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10093123	Pass
B6004SVIAL	rCutSmart™ Buffer	10107576	Pass

Assay Name/Specification	Lot # 10108399
<p>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 MboII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) MboII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>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.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and</p>	Pass

Assay Name/Specification	Lot # 10108399
double-stranded [³ H] E. coli DNA and a minimum of 5 units of MbolI incubated 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.

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Penghua Zhang
Production Scientist
09 Jun 2021



Michael Tonello
Packaging Quality Control Inspector
09 Jun 2021