

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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: 10069400 Expiration Date: 03/2022 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	
R0148SVIAL	Mboll	10069399	Pass	
B7204SVIAL	CutSmart® Buffer	10075569	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10074634	Pass	

Assay Name/Specification	Lot # 10069400
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 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.	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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass



R0148S / Lot: 10069400

Page 1 of 2

Assay Name/Specification	Lot # 10069400
double-stranded [³ H] 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.	
Tiodis at 37 C releases <0.176 of the total radioactivity.	

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

Penghua Zhang Production Scientist

01 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

01 Jul 2020

