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New England Biolabs Certificate of Analysis

Product Name: Msll
Catalog Number: R0571S
Concentration: 10,000 U/ml

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

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10090082
Expiration Date: 09/2022
Storage Temperature: -20°C

Storage Conditions: 100 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0571S/L v1.0

MsII Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0571SVIAL	MsII	10084453	Pass	
B7204SVIAL	CutSmart® Buffer	10085424	Pass	

Assay Name/Specification	Lot # 10090082
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of Msll incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 100 units of MsII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 50-fold over-digestion of Lambda DNA with MsII, >95% 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 MsII.	Pass

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.



R0571S / Lot: 10090082

Page 1 of 2



Penghaa Zhang Production Scientist 03 Nov 2020

Michael Tonello

Packaging Quality Control Inspector

03 Nov 2020