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## New England Biolabs Certificate of Analysis

Product Name:MselCatalog Number:R0525MConcentration:50,000 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: 10121517
Expiration Date: 09/2023
Storage Temperature: -20°C

Storage Conditions: 50 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-R0525M v1.0

Msel Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0525MVIAL	Msel	10121518	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10114156	Pass	
B6004SVIAL	rCutSmart™ Buffer	10115113	Pass	

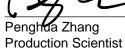
Assay Name/Specification	Lot # 10121517
<b>Ligation and Recutting (Terminal Integrity)</b> After a 10-fold over-digestion of Lambda DNA with Msel, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Msel.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of Msel 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 <sup>™</sup> Buffer containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 30 units of Msel incubated for 4 hours at 37°C releases <0.2% of the total radioactivity.	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.



R0525M / Lot: 10121517



13 Sep 2021

NEW ENGLAND

Michael Tonello

Packaging Quality Control Inspector

13 Sep 2021