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New England Biolabs Certificate of Analysis

Product Name:PmllCatalog Number:R0532SConcentration:20,000 U/ml

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

Lambda DNA (HindIII digest) DNA in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10193691
Expiration Date: 06/2024
Storage Temperature: -20°C

Storage Conditions: 25 mM KCl, 25 mM Tris-HCl (pH 7.5), 1 mM DTT, 0.5 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0532S/L v2.0

PmII Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0532SVIAL	PmII	10193687	Pass	
B6004SVIAL	rCutSmart™ Buffer	10184701	Pass	

Assay Name/Specification	Lot # 10193691
Endonuclease Activity (Nicking)	Pass
A 50 μl reaction in CutSmart™ Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 20 units of PmII incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
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 PmII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda HindIII DNA with PmII, >95% of the DNA	1 435
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	
fragments, >95% can be recut with PmII.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda HindIII DNA and a	
minimum of 100 Units of Pmll incubated for 16 hours at 37°C results in a DNA pattern	



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Assay Name/Specification	Lot # 10193691
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.

YunJie Sun Production Scientist

01 Jun 2023

Michael Tonello

Packaging Quality Control Inspector 28 Jun 2023





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