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## New England Biolabs Certificate of Analysis

Product Name: Pmll
Catalog Number: R0532L
Concentration: 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.

Lot Number:10040065Expiration Date:03/2020Storage 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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0532LVIAL	PmII	10040066	Pass	
B7204SVIAL	CutSmart® Buffer	10031569	Pass	

Assay Name/Specification	Lot # 10040065
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.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda HindIII DNA with PmII, >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 PmII.	
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Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [ ³H] E. coli DNA and a minimum of 100 units of Pmll incubated for 4	
hours at 37°C releases <0.1% of the total radioactivity.	
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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This product has been tested and shown to be in compliance with all specifications.

Production Scientist

20 Mar 2019

Josh Hersey

Packaging Quality Control Inspector

16 Apr 2019

