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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.

Packaging Lot Number: 10084357
Expiration Date: 08/2021
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	
R0532LVIAL	PmII	10081795	Pass	
B7204SVIAL	CutSmart® Buffer	10081169	Pass	

Assay Name/Specification	Lot # 10084357
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass
a minimum of 20 units of Pmll 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) 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.	Pass
Ligation and Recutting (Terminal Integrity) 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.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda HindIII DNA and a minimum of 100 Units of PmII incubated for 16 hours at 37°C results in a DNA pattern	Pass



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Assay Name/Specification	Lot # 10084357
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.

Penghua Zhang Production Scientist

07 Oct 2020

Michael Tonello

Packaging Quality Control Inspector

07 Oct 2020

