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New England Biolabs Certificate of Analysis

Product Name: Pmll
Catalog Number: R0532S
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: 10063414
Expiration Date: 10/2020
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	10057934	Pass	
B7204SVIAL	CutSmart® Buffer	10064409	Pass	

Assay Name/Specification	Lot # 10063414
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	Pass
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 PmII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	1 455
Endonuclease Activity (Nicking) 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.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda HindIII DNA with PmII, >95% of the DNA	Pass



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This product has been tested and shown to be in compliance with all specifications.

Stephanie Cornelio Production Scientist

Ephani Unetto

25 Oct 2019

Michael Tonello

Packaging Quality Control Inspector

11 Feb 2020

