

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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:	10116270
Expiration Date:	07/2022
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	Pmll	10116268	Pass	
B6004SVIAL	rCutSmart™ Buffer	10114155	Pass	

Assay Name/Specification	Lot # 10116270
<b>Ligation and Recutting (Terminal Integrity)</b> 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 <sup>™</sup> 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.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart <sup>™</sup> 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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass





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Assay Name/Specification	Lot # 10116270
double-stranded [ <sup>3</sup> H] 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.	

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

Penghua Zhang Production Scientist 30 Aug 2021

Josh Hersey

Packaging Quality Control Inspector 30 Aug 2021

