

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: 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: 10207393
Expiration Date: 09/2024
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0532SVIAL	PmII	10206390	Pass	
B6004SVIAL	rCutSmart™ Buffer	10202504	Pass	

Assay Name/Specification	Lot # 10207393
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 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)	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	
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
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda HindIII DNA and a	rass
minimum of 100 Units of Pmll incubated for 16 hours at 37°C results in a DNA pattern	



R0532S / Lot: 10207393

Page 1 of 2

Assay Name/Specification	Lot # 10207393
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 V Production Scientist 13 Sep 2023 Josh Hersey

Packaging Quality Control Inspector

27 Sep 2023



R0532S / Lot: 10207393

Page 2 of 2