

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.

Lot Number:10007466Expiration Date:05/2019Storage 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	10007467	Pass	
B7204SVIAL	CutSmart® Buffer	3071804	Pass	

Assay Name/Specification	Lot # 10007466
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 PmII 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
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 free of detectable nuclease degradation 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



R0532S / Lot: 10007466

Page 1 of 2

Assay Name/Specification	Lot # 10007466
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	
fragments, >95% can be recut with PmII.	

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

Stephanie Cornelio Production Scientist 22 May 2018 Michael Tonello Packaging Quality Control Inspector 04 Jun 2018

