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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: 10067773

Expiration Date: 02/2021

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

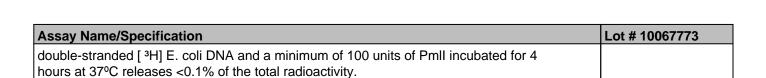
PmII Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0532SVIAL	PmII	10065785	Pass	
B7204SVIAL	CutSmart® Buffer	10061305	Pass	

Assay Name/Specification	Lot # 10067773
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda HindIII DNA with PmII, >95% of the DNA	Pass
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Pmll.	
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.	
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	



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

Stephanie Cornelio Production Scientist

tephoni Onetto

03 Feb 2020

Jay Minichiello

Packaging Quality Control Inspector

06 Mar 2020



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