

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:	PpuMI
Catalog Number:	R0506L
Concentration:	10,000 U/mI
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μg of Lambda DNA (HindIII digest) in 1 hour at 37°C in a total reaction volume of 50 μl.
Lot Number:	10021253
Expiration Date:	09/2020
Storage Temperature:	-20°C
Storage Conditions:	50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml BSA
Specification Version:	PS-R0506S/L v1.0

PpuMI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0506LVIAL	PpuMI	10020323	Pass	
B7204SVIAL	CutSmart® Buffer	10015394	Pass	

Assay Name/Specification	Lot # 10021253
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 PpuMI 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™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 30 units of PpuMI 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 double-stranded [³ H] E. coli DNA and a minimum of 100 units of PpuMI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of pBC4 DNA with PpuMI, >95% of the DNA fragments can	Pass





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Assay Name/Specification	Lot # 10021253
be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95%	
can be recut with PpuMI.	

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

you

Tony Spear-Alfonso Production Scientist 23 Jul 2018

Michae Mr.

Michael Tonello Packaging Quality Control Inspector 03 Oct 2018

