

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:	PspXI
Catalog Number:	R0656S
Concentration:	5,000 U/ml
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.
Packaging Lot Number:	10239631
Expiration Date:	03/2026
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μg/ml BSA
Specification Version:	PS-R0656S/L v1.0

PspXI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0656SVIAL	PspXI	10232929	Pass	
B6004SVIAL	rCutSmart™ Buffer	10235241	Pass	

Assay Name/Specification	Lot # 10239631
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 50 units of PspXI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda-HindIII DNA with PspXI, >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 PspXI.	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 25 Units of PspXI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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





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www.neb.com/trademarks for additional information.

Ana Egana Production Scientist 10 Apr 2024

Josh Hersey Packaging Quality Control Inspector 10 Apr 2024

