

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:	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:	10104596
Expiration Date:	12/2022
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	10091962	Pass	
B6004SVIAL	rCutSmart™ Buffer	10103713	Pass	

Assay Name/Specification	Lot # 10104596
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart <sup>™</sup> 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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Ligation and Recutting (Terminal Integrity)</b> 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

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.

Penghua Zhang

Penghita Zhang Production Scientist 23 Apr 2021

Josh Hersey

Packaging Quality Control Inspector 23 Apr 2021

