

DISCOVERY 240 County Road
GENUINE 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: PI-Pspl
Catalog Number: R0695S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 µg

of pAKR7 Xmnl-linearized Control Plasmid in 1 hour at 65°C in a

total reaction volume of 50 μl.

Lot Number: 10042563
Expiration Date: 08/2020
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-R0695S/L v1.0

PI-Pspl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0695SVIAL	PI-PspI	10019688	Pass	
N0421SVIAL	pAKR7 Xmnl-linearized Control Plasmid	10019687	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10028759	Pass	
B0695SVIAL	NEBuffer™ PI-PspI	10017323	Pass	

Assay Name/Specification	Lot # 10042563
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of pAKR7-XmnI DNA with PI-PspI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with PI-PspI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer PI-PspI containing 1 µg of pAKR7-XmnI DNA and a minimum of 5 Units of PI-PspI incubated for 16 hours at 65°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 NEBuffer PI-PspI containing 1 μg of supercoiled PhiX174 DNA and a minimum of 15 Units of PI-PspI incubated for 4 hours at 65°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release)	Pass



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Assay Name/Specification	Lot # 10042563
A 50 µl reaction in NEBuffer PI-Pspl containing 1 µg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 50 units of PI-PspI incubated for	
4 hours at 65°C releases <0.1% of the total radioactivity.	

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

Jianying Luo Production Scientist

01 Aug 2018

Michael Tonello

Packaging Quality Control Inspector

08 Apr 2019

