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New England Biolabs Certificate of Analysis

Product Name: PI-PspI
Catalog Number: R0695S
Concentration: 5,000 U/mI

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.

Packaging Lot Number: 10060451
Expiration Date: 10/2021
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	10060450	Pass	
N0421SVIAL	pAKR7 Xmnl-linearized Control Plasmid	10060453	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10057616	Pass	
B0695SVIAL	NEBuffer™ PI-PspI	10060452	Pass	

Assay Name/Specification	Lot # 10060451
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
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer PI-PspI 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.	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
Non-Specific DNase Activity (16 Hour)	Pass



R0695S / Lot: 10060451

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Assay Name/Specification	Lot # 10060451
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.	

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

Ben Penta

Production Scientist

Bu Rear

04 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

28 Jan 2020

