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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.

Lot Number: 10018184
Expiration Date: 05/2020
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

Assay Name/Specification	Lot # 10018184
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer PI-Pspl containing 1 µg of supercoiled PhiX174 DNA and a minimum of 15 Units of PI-Pspl incubated for 4 hours at 65°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer PI-Pspl containing 1 µg of a mixture of single and	
double-stranded [³ H] 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.	
Ligation and Recutting (Terminal Integrity)	Pass
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.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer PI-Pspl containing 1 µg of pAKR7-Xmnl 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.



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18 Jun 2018

Michael Tonello

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06 Aug 2018