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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: 10090819
Expiration Date: 11/2022
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-R0695S/L v1.0

PI-PspI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0695SVIAL	PI-PspI	10090820	Pass	
N0421SVIAL	pAKR7 Xmnl-linearized Control Plasmid	10090822	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10082650	Pass	
B0695SVIAL	NEBuffer™ PI-PspI	10090821	Pass	

Assay Name/Specification	Lot # 10090819
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) A 50 µl reaction in NEBuffer Pl-Pspl containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 50 units of Pl-Pspl incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass
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)	Pass



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Assay Name/Specification	Lot # 10090819
A 50 µl reaction in NEBuffer Pl-Pspl containing 1 µg of pAKR7-Xmnl DNA and a minimum of 5 Units of Pl-Pspl 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Pengha Zhang Production Scientist

13 Jan 2021

Michael Tonello

Packaging Quality Control Inspector

13 Jan 2021



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