

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:	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 XmnI-linearized Control Plasmid in 1 hour at 65°C in a total reaction volume of 50 μl.
Packaging Lot Number:	10189644
Expiration Date:	05/2025
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0695SVIAL	PI-PspI	10189643	Pass	
N0421SVIAL	pAKR7 XmnI-linearized Control Plasmid	10193206	Pass	
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10173665	Pass	
B0695SVIAL	NEBuffer™ PI-PspI	10189645	Pass	

Assay Name/Specification	Lot # 10189644
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer PI-PspI containing 1 μ g 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 PI-PspI 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.	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 # 10189644
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.

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.

YunJie Sun Production Scientist 16 May 2023

Josh Hersey

Packaging Quality Control Inspector 09 Jun 2023

