

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-Scel
Catalog Number:	R0696S
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to cleave 1 μg of pBSvdeX XmnI-linearized Control Plasmid in 3 hours at 37°C in a total reaction volume of 50 μl.
Packaging Lot Number:	10086384
Expiration Date:	10/2022
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-R0696S/L v2.0

PI-Scel Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0696SVIAL	PI-Scel	10086385	Pass	
N0422SVIAL	pBSvdeX XmnI-linearized Control Plasmid	10086387	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10082650	Pass	
B0696SVIAL	NEBuffer™ PI-Scel	10086386	Pass	

Assay Name/Specification	Lot # 10086384
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer PI-Scel containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of PI-Scel incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pBSvdeX-XmnI DNA with PI-SceI, ~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-SceI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer PI-Scel containing 1 µg of pBSvdeX-XmnI DNA and a minimum of 50 Units of PI-Scel incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass





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

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Penghua Zhang

Production Scientist 04 Nov 2020

Michael Tonello Packaging Quality Control Inspector 04 Nov 2020

