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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 Xmnl-linearized Control Plasmid in 3 hours at 37°C in a

total reaction volume of 50 μl.

Lot Number: 10054272
Expiration Date: 02/2021
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-R0696S/L v2.0

PI-Scel Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0696SVIAL	PI-Scel	10039627	Pass	
N0422SVIAL	pBSvdeX XmnI-linearized Control Plasmid	10036675	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10041006	Pass	
B0696SVIAL	NEBuffer™ PI-Scel	10053662	Pass	

Assay Name/Specification	Lot # 10054272
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer PI-Scel containing 1 µg of a mixture of single and double-stranded [³H] 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



R0696S / Lot: 10054272

Page 1 of 2

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

Jianying Luo Production Scientist 27 Feb 2019 Michael Tonello

Packaging Quality Control Inspector

10 Sep 2019

R0696S / Lot: 10054272

Page 2 of 2