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

total reaction volume of 50 μl.

Packaging Lot Number: 10117695
Expiration Date: 08/2023
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	10117694	Pass
N0422SVIAL	pBSvdeX XmnI-linearized Control Plasmid	10117698	Pass
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10116056	Pass
B0696SVIAL	NEBuffer™ PI-Scel	10117697	Pass

Assay Name/Specification	Lot # 10117695
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-Xmnl 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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17 Aug 2021

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Packaging Quality Control Inspector

17 Aug 2021