

New England Biolabs Certificate of Analysis

Product Name: PI-SceI
Catalog Number: R0696L
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: 10028304
Expiration Date: 10/2020
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

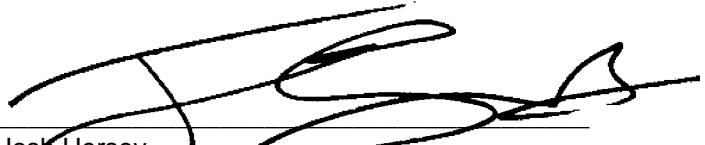
PI-SceI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0696LVIAL	PI-SceI	10028305	Pass
N0422SVIAL	pBSvdeX Xmnl-linearized Control Plasmid	10024750	Pass
B9001SVIAL	Purified BSA	10014762	Pass
B0696SVIAL	NEBuffer™ PI-SceI	10022521	Pass

Assay Name/Specification	Lot # 10028304
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer PI-SceI containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of PI-SceI 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-Xmnl 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-SceI containing 1 µg of pBSvdeX-Xmnl DNA and a minimum of 50 Units of PI-SceI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



Tony Spear-Alfonso
Production Scientist
12 Sep 2018



Josh Hersey
Packaging Quality Control Inspector
07 Nov 2018