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New England Biolabs
Certificate of Analysis

Product Name:	*PI-SceI*
Catalog #:	*R0696S/L*
Concentration:	*5,000 units/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.*
Lot #:	*0131411*
Assay Date:	*11/2014*
Expiration Date:	*11/2016*
Storage Temp:	*-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*
Effective Date:	*26 Nov 2013*

Assay Name/Specification (minimum release criteria)	Lot #0131411
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-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-SceI containing 1 μg of pBSvdeX-XmnI 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**

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by
Derek Robinson
26 Nov 2013

Inspected by
Jianying Luo
25 Nov 2014

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R0696S/L Lot: 0131411