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New England Biolabs Certificate of Analysis

Product Name:	SfcI
Catalog #:	R0561S/L
Concentration:	10,000 units/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
<i>Lot</i> #:	0311802
Assay Date:	02/2018
Expiration Date:	2/2020
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-R0561S/L v1.0
Effective Date:	24 Oct 2017

Assay Name/Specification (minimum release criteria) Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 50 units of SfcI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Non-Specific DNase Activity (16 hour) - A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of Lambda DNA and a minimum of 10 Units of SfcI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	

* 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.

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Authorized by Derek Robinson 24 Oct 2017



Inspected by Jianying Luo 31 Jan 2018