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New England Biolabs Certificate of Analysis

Product Name: Sspl-HF®
Catalog Number: R3132S
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in rCutSmart Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10141363
Expiration Date: 03/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

200 $\mu g/ml$ rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R3132S/L v2.0

SspI-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3132SVIAL	SspI-HF®	10141296	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10136927	Pass	
B6004SVIAL	rCutSmart™ Buffer	10138404	Pass	

Assay Name/Specification	Lot # 10141363
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with SspI-HF®, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with SspI-HF®.	Pass
Protein Purity Assay (SDS-PAGE) SspI-HF® is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 20 units of SspI-HF® is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass
Functional Testing (15 minute Digest)	Pass



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

for 4 hours at 37°C releases <0.1% of the total radioactivity.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghua Zhang Production Scientist

01 Apr 2022

Michael Tonello

Packaging Quality Control Inspector

01 Apr 2022



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