

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name: Sspl-HF®
Catalog Number: R3132L
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: 10176969
Expiration Date: 01/2025
Storage Temperature: -20°C

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

200 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R3132S/L v2.0

SspI-HF® Component List			
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result
R3132LVIAL	SspI-HF®	10176968	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10168649	Pass
B6004SVIAL	rCutSmart™ Buffer	10175291	Pass

Assay Name/Specification	Lot # 10176969
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and	
double-stranded [ 3H] E. coli DNA and a minimum of 100 units of SspI-HF® incubated	
for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	
100 units of SspI-HF® incubated for 16 hours at 37°C results in a DNA pattern free	
of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE)	Pass
SspI-HF® is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	
detection.	
qPCR DNA Contamination (E. coli Genomic)	Pass
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.	



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

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.

YunJie Sun \
Production Scientist
20 Jan 2023

determined by agarose gel electrophoresis.

Michael Tonello

Packaging Quality Control Inspector

22 Feb 2023



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