

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: R3132M
Concentration: 100,000 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: 10141362
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 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R3132M v2.0

SspI-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3132MVIAL	SspI-HF®	10141359	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10136927	Pass
B6004SVIAL	rCutSmart™ Buffer	10138402	Pass

Assay Name/Specification	Lot # 10141362
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 Sspl-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 Sspl-HF® incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
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®.	
Functional Testing (15 minute Digest)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of	



R3132M / Lot: 10141362

Page 1 of 2

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.

Penghua Zhang Production Scientist

01 Apr 2022

detection.

Michael Tonello

Packaging Quality Control Inspector

01 Apr 2022



R3132M / Lot: 10141362

Page 2 of 2