

New England Biolabs Certificate of Analysis

Product Name: Sspl
Catalog Number: R0132M
Concentration: 25,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10061350
Expiration Date: 01/2022
Storage Temperature: -20°C
Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.15% Triton X-100, 200 µg/ml BSA
Specification Version: PS-R0132M v1.0

Sspl Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0132MVIAL	Sspl	10061348	Pass
B0132SVIAL	NEBuffer™ Sspl	10069864	Pass

Assay Name/Specification	Lot # 10061350
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer Sspl containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of Sspl 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 Lambda DNA with Sspl, >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 Sspl.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer Sspl containing 1 µg of Lambda DNA and a minimum of 15 Units of Sspl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Sspl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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



Pengda Zhang
Production Scientist
10 Jul 2020



Josh Hersey
Packaging Quality Control Inspector
10 Jul 2020