

New England Biolabs Certificate of Analysis

Product Name: Sspl
Catalog Number: R0132L
Concentration: 5,000 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.
Lot Number: 10008582
Expiration Date: 04/2020
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-R0132S/L v1.0

| Sspl Component List | | | |
|---------------------|-----------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| R0132LVIAL | Sspl | 0351804 | Pass |
| B0132SVIAL | NEBuffer™ Sspl | 0131707 | Pass |

| Assay Name/Specification | Lot # 10008582 |
|---|----------------|
| 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
08 Aug 2018



Michael Tonello
Packaging Quality Control Inspector
08 Aug 2018