


## 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:** 10031405  
**Expiration Date:** 12/2020  
**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	10031406	Pass
B0132SVIAL	NEBuffer™ Sspl	10022307	Pass

Assay Name/Specification	Lot # 10031405
<p><b>Non-Specific DNase Activity (16 Hour)</b>            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.</p>	Pass
<p><b>Protein Purity Assay (SDS-PAGE)</b>            Sspl is &gt;95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.</p>	Pass
<p><b>Exonuclease Activity (Radioactivity Release)</b>            A 50 µl reaction in NEBuffer Sspl containing 1 µg of a mixture of single and double-stranded [<sup>3</sup>H] E. coli DNA and a minimum of 100 units of Sspl incubated for 4 hours at 37°C releases &lt;0.1% of the total radioactivity.</p>	Pass
<p><b>Ligation and Recutting (Terminal Integrity)</b>            After a 10-fold over-digestion of Lambda DNA with Sspl, &gt;95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, &gt;95% can be recut with Sspl.</p>	Pass

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



Anthony Francis  
Production Scientist  
24 Oct 2018



Michael Tonello  
Packaging Quality Control Inspector  
20 Dec 2018