

New England Biolabs Certificate of Analysis

Product Name: *Fspl*
Catalog Number: *R0135S*
Concentration: *10,000 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: *10083590*
Expiration Date: *09/2022*
Storage Temperature: *-20°C*
Storage Conditions: *300mM NaCl, 10mM Tris-HCl (pH 7.5), 0.1mM EDTA, 1mM dithiothreitol, 0.15% Triton X-100, 300 µg/ml BSA, 50% glycerol*
Specification Version: *PS-R0135S/L v1.0*

Fspl Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0135SVIAL	Fspl	10083591	Pass
B7204SVIAL	CutSmart® Buffer	10081171	Pass

Assay Name/Specification	Lot # 10083590
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of Fspl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Fspl, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated fragments, >95% can be recut with Fspl.</p>	Pass
<p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of Fspl 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

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.



Pengda Zhang
Production Scientist
18 Oct 2020



Mary Conlon
Packaging Quality Control Inspector
18 Oct 2020