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New England Biolabs Certificate of Analysis

Product Name: Fspl
Catalog Number: R0135L
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.

Lot Number: 10042822 Expiration Date: 05/2021 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 ug/ml BSA, 50% glycerol

Specification Version: PS-R0135S/L v1.0

Fspl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0135LVIAL	Fspl	10042823	Pass	
B7204SVIAL	CutSmart® Buffer	10036669	Pass	

Assay Name/Specification	Lot # 10042822
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.	Pass
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.	Pass
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.	Pass

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



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Production Scientist 22 Apr 2019

Minichiello May Minichiello

Packaging Quality Control Inspector

03 May 2019