

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: *10027877*
Expiration Date: *01/2021*
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	10027878	Pass
B7204SVIAL	CutSmart® Buffer	10021125	Pass

Assay Name/Specification	Lot # 10027877
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] 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
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
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

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



Tony Spear-Alfonso
Production Scientist
10 Dec 2018



Michael Tonello
Packaging Quality Control Inspector
16 Jan 2019