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New England Biolabs Certificate of Analysis

Product Name: Fokl
Catalog Number: R0109L
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.

Packaging Lot Number: 10054633
Expiration Date: 07/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

0.1% Tween-20, 200 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0109S/L v2.0

Fokl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0109LVIAL	Fokl	10047871	Pass	
B7204SVIAL	CutSmart® Buffer	10061305	Pass	

Assay Name/Specification	Lot # 10054633
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Fokl, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with Fokl.	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 5 units of Fokl incubated for 4 hours at 37°C releases <0.5% of the total radioactivity.	Pass

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



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Stephanie Cornelio Production Scientist 22 Jul 2019

Jay Minichiello

Packaging Quality Control Inspector

05 Mar 2020