

New England Biolabs Certificate of Analysis

Product Name: FokI
Catalog Number: R0109S
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: 10181309
Expiration Date: 08/2024
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

FokI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0109SVIAL	FokI	10160796	Pass
B6004SVIAL	rCutSmart™ Buffer	10175292	Pass

Assay Name/Specification	Lot # 10181309
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with FokI, ~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 FokI.	Pass
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 5 units of FokI 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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Penghua Zhang
Production Scientist
10 Aug 2022



Josh Hersey
Packaging Quality Control Inspector
24 Feb 2023