

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: 10118459
Expiration Date: 07/2023
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	10114179	Pass
B6004SVIAL	rCutSmart™ Buffer	10115113	Pass

Assay Name/Specification	Lot # 10118459
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
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

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.



Penghua Zhang
Production Scientist
13 Sep 2021



Michael Tonello
Packaging Quality Control Inspector
13 Sep 2021