

## 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.  
**Lot Number:** 10026193  
**Expiration Date:** 09/2020  
**Storage Temperature:** -20°C  
**Storage Conditions:** 50 mM NaCl, 10 mM Tris-HCl (pH 8.2), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.1% Tween-20, 200 µg/ml BSA  
**Specification Version:** PS-R0109S/L v1.0

FokI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0109SVIAL	FokI	10020687	Pass
B7204SVIAL	CutSmart® Buffer	10018444	Pass

Assay Name/Specification	Lot # 10026193
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Ligation and Recutting (Terminal Integrity)</b> 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.



Anthony Francis  
Production Scientist  
12 Sep 2018



Michael Tonello  
Packaging Quality Control Inspector  
16 Oct 2018