

## New England Biolabs Certificate of Analysis

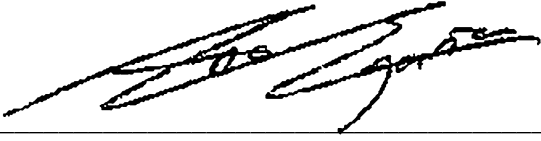
**Product Name:** *FokI*  
**Catalog Number:** *R0109S*  
**Concentration:** *5,000 U/ml*  
**Unit Definition:** *One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 µl.*  
**Packaging Lot Number:** *10242760*  
**Expiration Date:** *05/2026*  
**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	10241701	Pass
B6004SVIAL	rCutSmart™ Buffer	10238051	Pass

Assay Name/Specification	Lot # 10242760
<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.	<b>Pass</b>
<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.	<b>Pass</b>

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

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