

New England Biolabs Certificate of Analysis

Product Name: FokI
Catalog #: R0109S/L
Concentration: 5,000 units/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 #: 0491802
Assay Date: 02/2018
Expiration Date: 02/2020
Storage Temp: -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
Effective Date: 30 Nov 2017

Assay Name/Specification (minimum release criteria)	Lot #0491802
Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] <i>E. coli</i> 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

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.



Authorized by
Derek Robinson
30 Nov 2017



Inspected by
Anthony Francis
06 Mar 2018

