

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 #: *0471409*
Assay Date: *09/2014*
Expiration Date: *9/2016*
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: *15 Jul 2013*

Assay Name/Specification (minimum release criteria)	Lot #0471409
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
15 Jul 2013



Inspected by
Anthony Francis
24 Sep 2014

