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New England Biolabs Product Specification

Product Name: Sau96I

Catalog #: R0165S/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 μ l.

Shelf Life: 24 months Storage Temp: $-20 \, ^{\circ}\text{C}$

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA

Specification Version: PS-R0165S/L v1.0

Effective Date: 29 May 2013

Assay Name/Specification (minimum release criteria)

Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in CutSmartTM Buffer containing 1 μ g of a mixture of single and double-stranded [3 H] *E. coli* DNA and a minimum of 25 units of Sau96I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.

Ligation and Recutting (Terminal Integrity) - After a 10-fold over-digestion of Lambda DNA with Sau96I, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Sau96I.

Non-Specific DNase Activity (16 Hour) - A 50 µl reaction in CutSmartTM Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of Sau96I incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Date

29 May 2013

Derek Robinson

Director of Quality Control







^{*} 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.