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New England Biolabs Product Specification

Product Name:	Sau96I
Catalog #:	R0165S
Concentration:	5,000 units/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in rCutSmart Buffer in 1 hour at 37°C in a total reaction volume of 50 μ l.
Shelf Life:	24 months
Storage Temp:	-20°C
Storage Conditions:	10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml rAlbumin (pH 7.4 @ 25°C)
Specification Version:	<i>PS-R0165S v2.0</i>
Effective Date:	07 Apr 2023

Assay Name/Specification (minimum release criteria)

Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in rCutSmartTM Buffer containing 1 μ g of a mixture of single and double-stranded [³H] *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.

Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in rCutSmartTM Buffer containing 1 μ g 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.

Protein Purity Assay (SDS-PAGE) - Sau96I is \geq 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit <u>www.neb.com/trademarks</u> for additional information.

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Date 07 Apr 2023

Nancy Considine Quality Approver



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