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New England Biolabs Certificate of Analysis

Product Name: Stul

Catalog Number: R0187S

Concentration: 10,000 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: 10098522
Expiration Date: 02/2023
Storage Temperature: -20°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-R0187S/L v1.0

Stul Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0187SVIAL	Stul	10098523	Pass	
B7204SVIAL	CutSmart® Buffer	10093122	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10091034	Pass	

Assay Name/Specification	Lot # 10098522
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of Stul incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Stul is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Stul, >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 Stul.	Pass
Blue-White Screening (Terminal Integrity) A sample of Litmus 28i vector linearized with a 10-fold excess of Stul, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass



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

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

Penghua Zhang Production Scientist

23 Feb 2021

Michael Tonello

Packaging Quality Control Inspector

23 Feb 2021



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