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New England Biolabs Certificate of Analysis

Product Name: Sall-HF®
Catalog Number: R3138M
Concentration: 100,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (HindIII digest) in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10152978
Expiration Date: 06/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 300

μg/ml BSA, (pH 7.5 @ 25°C)

Specification Version: PS-R3138T/M v2.0

Sall-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3138MVIAL	Sall-HF®	10152977	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10149690	Pass	
B6004SVIAL	rCutSmart™ Buffer	10150374	Pass	

Assay Name/Specification	Lot # 10152978
Ligation and Recutting (Terminal Integrity) After a 50-fold over-digestion of pBC4XS DNA with Sall-HF®, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated	Pass
fragments, >95% can be recut with Sall-HF®.	Pess
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of Sall-HF® incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of pBR322 DNA and a minimum of 200 units of Sall-HF® incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Sall-HF®, religated	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

16 Jun 2022

Erin Varney

Packaging Quality Control Inspector

16 Jun 2022



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