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New England Biolabs Certificate of Analysis

Product Name: Sall-HF®
Catalog Number: R3138L
Concentration: 20,000 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: 10063476
Expiration Date: 11/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.5), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 300 μg/ml BSA

Specification Version: PS-R3138S/L v1.0

Sall-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3138LVIAL	Sall-HF®	10059864	Pass
B7204SVIAL	CutSmart® Buffer	10064406	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10064412	Pass

Assay Name/Specification	Lot # 10063476
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Sall-HF™, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 20 Units of Sall-HF™ incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
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
Ligation and Recutting (Terminal Integrity) After a 50-fold over-digestion of Adenovirus-2 DNA with Sall-HF™, >95% of the DNA	Pass



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

of detectable nuclease degradation as determined by agarose gel electrophoresis.

Jianying Luo Production Scientist

18 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

07 Feb 2020

