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New England Biolabs Certificate of Analysis

Product Name: Sall-HF®
Catalog Number: R3138S
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.

Lot Number: 10030762
Expiration Date: 12/2020
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	
R3138SVIAL	Sall-HF®	10030763	Pass	
B7204SVIAL	CutSmart® Buffer	10021126	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021132	Pass	

Assay Name/Specification	Lot # 10030762
Ligation and Recutting (Terminal Integrity) After a 50-fold over-digestion of Adenovirus-2 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 fragments, >95% can be recut with Sall-HF™.	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
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
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of supercoiled PhiX174 DNA and	Pass



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

Tony Spear-Alfonso Production Scientist

results in <1% white colonies.

14 Nov 2018

Michael Tonello

Packaging Quality Control Inspector

12 Dec 2018

