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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.

Packaging Lot Number: 10165638
Expiration Date: 08/2024
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-R3138S/L/V v2.0

Sall-HF® Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R3138SVIAL	Sall-HF®	10159234	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10163561	Pass	
B6004SVIAL	rCutSmart™ Buffer	10163560	Pass	

Assay Name/Specification	Lot # 10165638
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Sall-HF®, religated	Pass
and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	
Ligation and Recutting (Terminal Integrity)	Pass
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	
fragments, >95% can be recut with Sall-HF®.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and	



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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.

Jianying Luo Production Scientist 09 Aug 2022 Michael Tonello

Packaging Quality Control Inspector

21 Oct 2022



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