

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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: 10090254
Expiration Date: 09/2022
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-R3138T/M v1.0

Sall-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3138MVIAL	Sall-HF®	10082611	Pass	
B7204SVIAL	CutSmart® Buffer	10085423	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084971	Pass	

Assay Name/Specification	Lot # 10090254
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.

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 05 Nov 2020 Michael Tonello

Packaging Quality Control Inspector

05 Nov 2020

