

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.

Lot Number: 10040928
Expiration Date: 03/2021
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-R3138T/M v1.0

Sall-HF® Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
R3138MVIAL	Sall-HF®	10040929	Pass
B7204SVIAL	CutSmart® Buffer	10036669	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021139	Pass

Assay Name/Specification	Lot # 10040928
Blue-White Screening (Terminal Integrity)	Pass
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.	
Endonuclease Activity (Nicking)	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass
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.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 50-fold over-digestion of Adenovirus-2 DNA with Sall-HF™, >95% of the DNA	



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

Production Scientist 05 Mar 2019

Michael Tonello

Packaging Quality C

Packaging Quality Control Inspector

06 May 2019



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