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## New England Biolabs Certificate of Analysis

Product Name: Sall-HF®
Catalog Number: R3138T
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: 10157692
Expiration Date: 06/2024
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-R3138T/M v2.0

| Sall-HF® Component List |                              |            |                      |  |
|-------------------------|------------------------------|------------|----------------------|--|
| <b>NEB Part Number</b>  | Component Description        | Lot Number | Individual QC Result |  |
| R3138TVIAL              | Sall-HF®                     | 10152980   | Pass                 |  |
| B7024AVIAL              | Gel Loading Dye, Purple (6X) | 10153339   | Pass                 |  |
| B6004SVIAL              | rCutSmart™ Buffer            | 10153337   | Pass                 |  |

| Assay Name/Specification  | Lot # 10157692 |
|---|----------------|
| Ligation and Recutting (Terminal Integrity) 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®.                            | 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           |
| 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           |
| Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Sall-HF®, religated  | Pass           |



R3138T / Lot: 10157692

Page 1 of 2

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

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

08 Jul 2022

Michael Tonello

Packaging Quality Control Inspector

08 Jul 2022



R3138T / Lot: 10157692

Page 2 of 2