

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
Catalog Number: R0138M

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: 10203172
Expiration Date: 08/2025
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-R0138T/M v2.0

| Sall Component List | | | | |
|------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0138MVIAL | Sall | 10201541 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10198639 | Pass | |
| B6003SVIAL | NEBuffer™ r3.1 | 10182162 | Pass | |

| Assay Name/Specification | Lot # 10203172 |
|---|----------------|
| Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Sall, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in | Pass |
| <1% white colonies. Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and | Pass |
| double-stranded [³H] E. coli DNA and a minimum of 100 units of Sall incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. Ligation and Recutting (Terminal Integrity) | Pass |
| After a 20-fold over-digestion of pBC4XS DNA with Sall, >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. | |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBR322 DNA and a minimum of 20 | Pass |



R0138M / Lot: 10203172

Page 1 of 2

| Assay Name/Specification | Lot # 10203172 |
|---|----------------|
| units of Sall incubated for 16 hours at 37°C results in a DNA pattern free of | |
| detectable nuclease degradation as determined by agarose gel electrophoresis. | |

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.

YunJie Sun Production Scientist

17 Aug 2023

Josh Hersey

Packaging Quality Control Inspector

21 Aug 2023



R0138M / Lot: 10203172

Page 2 of 2