

www.neb.com info@neb.com



## New England Biolabs Certificate of Analysis

Product Name: Sall
Catalog Number: R0138S
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: 10248417 Expiration Date: 06/2026 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-R0138S/L/V v2.0

Sall Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0138SVIAL	Sall	10241814	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10236423	Pass	
B6003SVIAL	NEBuffer™ r3.1	10237087	Pass	

Assay Name/Specification	Lot # 10248417
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 <1% white colonies.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and 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.	Pass
Ligation and Recutting (Terminal Integrity) 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.	Pass
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



R0138S / Lot: 10248417

Page 1 of 2



Assay Name/Specification	Lot # 10248417
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.

Ana Egana Production Scientist

18 Jun 2024

Josh Hersey

Packaging Quality Control Inspector

18 Jun 2024



R0138S / Lot: 10248417

Page 2 of 2