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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: 10140477
Expiration Date: 03/2024
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-R0138S/L/V v2.0

Sall Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0138SVIAL	Sall	10140475	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10132772	Pass	
B6003SVIAL	NEBuffer™ r3.1	10132774	Pass	

Assay Name/Specification	Lot # 10140477
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)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBR322 DNA and a minimum of 20	
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.	
Exonuclease Activity (Radioactivity Release)	Pass
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.	
Blue-White Screening (Terminal Integrity)	Pass
A sample of pUC19 vector linearized with a 10-fold excess of Sall, religated and	



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Assay Name/Specification	Lot # 10140477
transformed into an E. coli strain expressing the LacZ beta fragment gene results in	
<1% white colonies.	

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

22 Mar 2022

Josh Hersey

Packaging Quality Control Inspector

22 Mar 2022

