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New England Biolabs Certificate of Analysis

Product Name: Sall

Catalog Number: R0138L

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.

Lot Number: 10009662
Expiration Date: 05/2020
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-R0138S/L v1.0

Sall Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0138LVIAL	Sall	10009669	Pass	
B7203SVIAL	NEBuffer™ 3.1	10010189	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	0261805	Pass	

Assay Name/Specification	Lot # 10009662
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.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 20-fold over-digestion of Adenovirus-2 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.	
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	
nours 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	1 433



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Assay Name/Specification	Lot # 10009662
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.

Jianying Luo Production Scientist

31 May 2018

Michael Tonello

Packaging Quality Control Inspector

25 Jul 2018

