

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	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:	10162256
Expiration Date:	08/2024
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	10162251	Pass		
B7024AVIAL	Gel Loading Dye, Purple (6X)	10161525	Pass		
B6003SVIAL	NEBuffer™ r3.1	10146826	Pass		

Assay Name/Specification	Lot # 10162256
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 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.	Pass
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	Pass





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Assay Name/Specification	Lot # 10162256
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.	

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

Penghua Zhang Production Scientist 12 Sep 2022

Michae

Michael Tonello Packaging Quality Control Inspector 27 Sep 2022

