

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: *10090782*

Expiration Date: *09/2022*

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
R0138SVIAL	Sall	10082127	Pass
B7203SVIAL	NEBuffer™ 3.1	10085494	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10089392	Pass

Assay Name/Specification	Lot # 10090782
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Adenovirus-2 DNA with Sall, >95% of the DNA</p>	Pass

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fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated fragments, >95% can be recut with Sall.	

This product has been tested and shown to be in compliance with all specifications.

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Production Scientist
03 Dec 2020



Michael Tonello
Packaging Quality Control Inspector
03 Dec 2020