NEW ENGLAND BioLabs Inc.
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:	*SalI*
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.*
Packaging Lot Number:	*10162254*
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*

SalI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0138LVIAL	SalI	10162252	**Pass**
B7024AVIAL	Gel Loading Dye, Purple (6X)	10158559	**Pass**
B6003SVIAL	NEBuffer™ r3.1	10146825	**Pass**

Assay Name/Specification	**Lot # 10162254**
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of pBC4XS DNA with SalI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25ºC. Of these ligated fragments, >95% can be recut with SalI.	**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 SalI incubated for 16 hours at 37ºC 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 SalI, 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 # 10162254
double-stranded [^{3}H] E. coli DNA and a minimum of 100 units of SalI incubated for 4 hours at 37ºC 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
Production Scientist
12 Sep 2022

Erin Varney
Packaging Quality Control Inspector
13 Sep 2022