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:	*R0138T*
Concentration:	*100,000 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:	*10181047*
Expiration Date:	*03/2025*
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-R0138T/M v2.0*

SalI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0138TVIAL	SalI	10181046	**Pass**
B7024AVIAL	Gel Loading Dye, Purple (6X)	10175294	**Pass**
B6003SVIAL	NEBuffer™ r3.1	10168653	**Pass**

Assay Name/Specification	**Lot # 10181047**
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 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.	**Pass**
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	**Pass**

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Assay Name/Specification	Lot # 10181047
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.	

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.

YunJie Sun
Production Scientist
14 Mar 2023

Michael Tonello
Packaging Quality Control Inspector
28 Mar 2023