

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: Rsal
Catalog Number: R0167S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10128430 Expiration Date: 11/2023 Storage Temperature: -20°C

Storage Conditions: 100 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0167S/L v1.0

Rsal Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0167SVIAL	Rsal	10128435	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10121396	Pass	
B6004SVIAL	rCutSmart™ Buffer	10127377	Pass	

Assay Name/Specification	Lot # 10128436
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda DNA with Rsal, >95% of the DNA fragments	
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments,	
>95% can be recut with Rsal.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	
50 Units of Rsal incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 50 units of Rsal 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.



R0167S / Lot: 10128436

Page 1 of 2



Penghaa Zhang Production Scientist 09 Dec 2021 Michael Tonello

Packaging Quality Control Inspector

09 Dec 2021