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## New England Biolabs Certificate of Analysis

Product Name: Rsal
Catalog Number: R0167L
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 rCutSmart™ Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10205826
Expiration Date: 08/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

200 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0167S/L v2.0

Rsal Component List			
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result
R0167LVIAL	Rsal	10205824	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10198646	Pass
B6004SVIAL	rCutSmart™ Buffer	10202500	Pass

Assay Name/Specification	Lot # 10205826
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ 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.	Pass
Functional Testing (15 minute Digest) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of Rsal incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity)  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.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in rCutSmart™ Buffer containing 1 μg of Lambda DNA and a minimum of	Pass



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

The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.

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
22 Aug 2023

Josh Hersey

Packaging Quality Control Inspector

29 Sep 2023



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