

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: RecJf
Catalog Number: M0264L
Concentration: 30,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to produce 0.05

nmol TCA soluble deoxyribonucleotide in a total reaction volume of

50 μl in 30 minutes at 37°C.

Packaging Lot Number: 10104349
Expiration Date: 04/2023
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 µg/ml BSA

, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0264S/L v2.0

RecJf Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0264LVIAL	RecJf	10104348	Pass
B7002SVIAL	NEBuffer™ 2	10097265	Pass

Assay Name/Specification	Lot # 10104349
Ligation and Recutting (Terminal Integrity, Digested DNA) A 50 μl reaction in 1X CutSmart® Buffer containing 4 μg of PhiX174-HaeIII digest and a minimum of 60 units of RecJf incubated for 4 hours at 37°C results in >95% ligation of the DNA fragments as determined by agarose gel electrophoresis. Of these ligated fragments, >95% can be recut with HaeIII.	Pass
Endonuclease Activity (Circular Single Stranded DNA) A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174 Virion DNA and a minimum of 90 units of RecJf incubated for 4 hours at 37°C results in <10% conversion to linear DNA as determined by agarose gel electrophoresis.	Pass
RNase Activity Assay (4 Hour Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 30 units of RecJf is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Endonuclease Activity (Nicking)	Pass



M0264L / Lot: 10104349 Page 1 of 2

Assay Name/Specification	Lot # 10104349
A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 90 units of RecJf incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity, Digested DNA) A 50 µl reaction in 1X CutSmart® Buffer containing 4 µg of pUC19-Sphl digest and a minimum of 60 units of RecJf incubated for 4 hours at 37°C results in >95% ligation of the DNA fragments as determined by agarose gel electrophoresis. Of these ligated fragments >95% can be recut with Sphl	Pass

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.

John Greci Production Scientist 07 Apr 2021 Michael Tonello

Packaging Quality Control Inspector

07 Apr 2021



M0264L / Lot: 10104349

Page 2 of 2