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## 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.

Lot Number: 10014919
Expiration Date: 07/2020
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 v1.0

RecJf Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0264LVIAL	RecJf	10014920	Pass	
B7002SVIAL	NEBuffer™ 2	0381805	Pass	

Assay Name/Specification	Lot # 10014919
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
Endonuclease Activity (Nicking) 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.	Pass
<b>Ligation and Recutting (Terminal Integrity, Digested DNA)</b> 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
Ligation and Recutting (Terminal Integrity, Digested DNA) A 50 µl reaction in 1X CutSmart® Buffer containing 4 µg of Lambda-HaelII digest and	Pass



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

John Greci

**Production Scientist** 

11 Jul 2018

Michael Tonello

Packaging Quality Control Inspector

19 Jul 2018

