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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.

Packaging Lot Number: 10069210 Expiration Date: 01/2022 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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0264LVIAL	RecJf	10062304	Pass	
B7002SVIAL	NEBuffer™ 2	10074105	Pass	

Assay Name/Specification	Lot # 10069210
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
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
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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Assay Name/Specification	Lot # 10069210
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 Haell.	
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

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

John Greci

Production Scientist

07 May 2020

Yay Minichiello

Packaging Quality Control Inspector

07 May 2020



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