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New England Biolabs Certificate of Analysis

Product Name: RecJf
Catalog Number: M0264S
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: 10070012 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	
M0264SVIAL	RecJf	10065025	Pass	
B7002SVIAL	NEBuffer™ 2	10074105	Pass	

Assay Name/Specification	Lot # 10070012
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%	Pass
conversion to linear DNA as determined by agarose gel electrophoresis. 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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This product has been tested and shown to be in compliance with all specifications.

John Greci

Production Scientist

22 Jun 2020

Josh Hersey

Packaging Quality Control Inspector

22 Jun 2020

