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New England Biolabs Certificate of Analysis

Product Name: Fatl
Catalog Number: R0650L
Concentration: 2,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pUC19 DNA in NEBuffer r2.1 in 1 hour at 55°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10203107
Expiration Date: 08/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200

μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0650S/L v2.0

Fatl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0650LVIAL	Fatl	10201947	Pass	
B6002SVIAL	NEBuffer™ r2.1	10173667	Pass	

Assay Name/Specification	Lot # 10203107
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer™ r2.1 containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 10 units of FatI incubated for 4 hours at 55°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pUC19 DNA with Fatl, >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 Fatl.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer™ r2.1 containing 1 µg of pUC19 DNA and a minimum of 10 units of FatI incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) FatI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



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

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YunJie Suń

Production Scientist

10 Aúg 2023

Michael Tonello

Packaging Quality Control Inspector

18 Aug 2023

