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New England Biolabs Certificate of Analysis

Product Name: Fatl
Catalog Number: R0650S
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 1 hour at 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10178372
Expiration Date: 02/2025
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0650S/L v1.0

Fatl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0650SVIAL	Fatl	10178371	Pass	
B6002SVIAL	NEBuffer™ r2.1	10154052	Pass	

Assay Name/Specification	Lot # 10178372
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of pUC19 DNA and a minimum of 10 Units of Fatl incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pUC19 DNA with FatI, >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 FatI.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 10 units of Fatl incubated for 4 hours at 55°C releases <0.1% of the total radioactivity.	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.



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YunJie Sun \
Production Scientist

08 Feb 2023

Josh Hersey Packaging Ou 09 Feb 2023 ality Control Inspector