

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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 1 hour at 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10078084
Expiration Date: 07/2022
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	
R0650LVIAL	Fatl	10078085	Pass	
B7202SVIAL	NEBuffer™ 2.1	10070034	Pass	

Assay Name/Specification	Lot # 10078084
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	Pass
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.	
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
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

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.



R0650L / Lot: 10078084

Page 1 of 2



Penghua Zhang Production Scientist 03 Sep 2020

Michael Tonello

Packaging Quality Control Inspector

03 Sep 2020