

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: Faul
Catalog Number: R0651L
Concentration: 5,000 U/ml

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

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

Lot Number: 10026078
Expiration Date: 10/2020
Storage Temperature: -20°C

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

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0651S/L v1.0

Faul Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0651LVIAL	Faul	10026076	Pass	
B7204SVIAL	CutSmart® Buffer	10018445	Pass	

Assay Name/Specification	Lot # 10026075
<b>Ligation and Recutting (Terminal Integrity)</b> After a 5-fold over-digestion of Lambda DNA with Faul, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with Faul.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of Faul incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 5 units of Faul incubated for 4 hours at 55°C releases <1.0% of the total radioactivity.	Pass

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



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Tony Spear-Alfonso Production Scientist 05 Sep 2018

Michael Tonello

Packaging Quality Control Inspector

29 Oct 2018