New England Biolabs
Certificate of Analysis

Product Name:	*FauI*
Catalog Number:	*R0651S*
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.*
Packaging Lot Number:	*10200629*
Expiration Date:	*07/2025*
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*

FauI Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
R0651SVIAL	FauI	10200203	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10196035	**Pass**

Assay Name/Specification	Lot # 10200629
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 FauI incubated for 4 hours at 55⁰C releases <1.0% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with FauI, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16⁰C. Of these ligated fragments, ~75% can be recut with FauI.	**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 FauI incubated for 16 hours at 55⁰C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**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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