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

New England Biolabs Product Specification

Product Name: FauI

Catalog #: R0651S/L
Concentration: 5,000 units/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 μ l.

Shelf Life: 24 months
Storage Temp: -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
Effective Date: 06/11/2013

Assay Name/Specification (minimum release criteria)

Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in CutSmartTM 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 55°C releases <1.0% of the total radioactivity.

Ligation and Recutting (Terminal Integrity) - After a 5-fold over-digestion of Lambda DNA with FauI, \sim 50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, \sim 75% can be recut with FauI.

Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in CutSmartTM Buffer containing 1 μ g of Lambda DNA and a minimum of 5 Units of FauI incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

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.

Derek Robinson Quality Approver







06/11/2013

Date