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New England Biolabs Product Specification

Product Name: Hpy99I

Catalog #: R0615S/L/V
Concentration: 2,000 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 37°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-R0615S/L v1.0
Effective Date: 05/03/2013

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 20 units of Hpy99I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.

Ligation and Recutting (Terminal Integrity) - After a 5-fold over-digestion of Lambda DNA with Hpy99I, >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 Hpy99I.

Non-Specific DNase Activity (16 Hour) - A 50 μl reaction in CutSmartTM Buffer containing 1 μg of Lambda DNA and a minimum of 20 Units of Hpy99I incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Protein Purity Assay (SDS-PAGE) - Hpy99I is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.

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Derek Robinson Quality Approver





