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New England Biolabs
Certificate of Analysis

Product Name:	*HinfI*
Catalog #:	*R0155S/L*
Concentration:	*10,000 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 of 50 μl.*
Lot #:	*0401308*
Assay Date:	*08/2013*
Expiration Date:	*08/2015*
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-R0155S/L v1.0*
Effective Date:	*01 Jul 2013*

Assay Name/Specification (minimum release criteria)	Lot #0401308
Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [^{3}H] *E. coli* DNA and a minimum of 100 units of HinfI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) - After a 20-fold over-digestion of Lambda DNA with HinfI, >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 HinfI.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 μl reaction in CutSmart™ Buffer containing 1 μg of Lambda DNA and a minimum of 100 Units of HinfI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) - HinfI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

* *The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.*

Authorized by
Derek Robinson
01 Jul 2013

Inspected by
Terry Petronzio
17 Sep 2013