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New England Biolabs Certificate of Analysis

Product Name: Hincll
Catalog Number: R0103S
Concentration: 10,000 U/ml

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

of Lambda DNA in rCutSmart™ Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10137171
Expiration Date: 01/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

200 $\mu g/ml$ rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0103S/L v3.0

Hincll Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0103SVIAL	Hincll	10137111	Pass	
B6004SVIAL	rCutSmart™ Buffer	10132778	Pass	

Assay Name/Specification	Lot # 10137171
qPCR DNA Contamination (E. coli Genomic) A minimum of 10 units of HincII is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results	Pass
are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	
Protein Purity Assay (SDS-PAGE) HincII is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Functional Testing (15 minute Digest) A 50 μl reaction in rCutSmart™ Buffer containing 1 μg of Lambda DNA and 1 μl of Hincll incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 units of HincII incubated for 16 hours at 37°C results in a DNA pattern free of	Pass



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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.

Penghua Zhang
Production Scientist

>95% can be recut with HincII.

04 Mar 2022

Josh Hersey

Packaging Quality Control Inspector

04 Mar 2022



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