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## **New England Biolabs Certificate of Analysis**

Product Name: HinP1I Catalog Number: R0124S 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: 10179058 Expiration Date: 02/2025 -20°C Storage Temperature:

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

μg/ml rAlbumin (pH 7.4 @ 25°C)

PS-R0124S v2.0 Specification Version:

HinP1I Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0124SVIAL	HinP1I	10179056	Pass	
B6004SVIAL	rCutSmart™ Buffer	10175290	Pass	

Assay Name/Specification	Lot # 10179058
Functional Testing (15 minute Digest)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of HinP1I incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 50 units of HinP1I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>qPCR DNA Contamination (E. coli Genomic)</b> A minimum of 10 units of HinP1I 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 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.	Pass
Ligation and Recutting (Terminal Integrity)  After a 10-fold over-digestion of Lambda DNA with HinP1I, >95% of the DNA fragments	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.

YunJie Sun \

Production Scientist

30 Jan 2023

Michael Tonello

Packaging Quality Control Inspector

31 Jan 2023



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