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## New England Biolabs Certificate of Analysis

Product Name: HindIII

Catalog Number: R0104L

Concentration: 20,000 U/mI

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 μl.

Packaging Lot Number: 10118497
Expiration Date: 08/2023
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0104S/L v1.0

HindIII Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0104LVIAL	HindIII	10118496	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10119053	Pass	
B6002SVIAL	NEBuffer™ r2.1	10102965	Pass	

Assay Name/Specification	Lot # 10118497
Protein Purity Assay (SDS-PAGE) HindIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Ligation and Recutting (Terminal Integrity) After a 200-fold over-digestion of Lambda DNA with HindIII, >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 HindIII.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of Lambda DNA and a minimum of 60 Units of HindIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 60 Units of HindIII incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass



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

This product has been tested and shown to be in compliance with all specifications.

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Penghua Zhang Production Scientist 23 Sep 2021 Michael Tonello

Packaging Quality Control Inspector

23 Sep 2021



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