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## New England Biolabs Certificate of Analysis

Product Name: HindIII

Catalog Number: R0104T

Concentration: 100,000 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: 10085581
Expiration Date: 08/2022
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-R0104T/M v1.0

HindIII Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0104TVIAL	HindIII	10081350	Pass	
B7202SVIAL	NEBuffer™ 2.1	10070034	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084971	Pass	

Assay Name/Specification	Lot # 10085581
Protein Purity Assay (SDS-PAGE) HindIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	
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	Pass
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.	
Blue-White Screening (Terminal Integrity)	Pass
A sample of Litmus28i vector linearized with a 10-fold excess of HindIII, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene	
results in <1% white colonies.	
Endonuclease Activity (Nicking)	Pass
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.	



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

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Penghaa Zhang Production Scientist

fragments, >95% can be recut with HindIII.

27 Oct 2020

Michael Tonello

Packaging Quality Control Inspector

27 Oct 2020



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