

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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.

Lot Number: 10012442
Expiration Date: 06/2020
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0104LVIAL	HindIII	10012443	Pass	
B7202SVIAL	NEBuffer™ 2.1	0261805	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	0261805	Pass	

Assay Name/Specification	ot # 10012442
Protein Purity Assay (SDS-PAGE) HindIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	
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.	
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.	
Ligation and Recutting (Terminal Integrity)	Pass
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.	



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

Jianying Luo Production Scientist

28 Jun 2018

Josh Hersey

Packaging Quality Control Inspector

11 Jul 2018



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