

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: R0104S

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: 10050547
Expiration Date: 04/2021
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	
R0104SVIAL	HindIII	10041741	Pass	
B7202SVIAL	NEBuffer™ 2.1	10043906	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10043909	Pass	

Assay Name/Specification	Lot # 10050547
Blue-White Screening (Terminal Integrity) 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.	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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 200 units of HindIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) HindIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass



R0104S / Lot: 10050547

Page 1 of 2

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

Jianying Luo Production Scientist

fragments, >95% can be recut with HindIII.

05 Apr 2019

Jay Minichiello

Packaging Quality Control Inspector

13 Aug 2019



R0104S / Lot: 10050547

Page 2 of 2