

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-HF®
Catalog Number: R3104T
Concentration: 100,000 U/ml

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: 10115899 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-R3104T/M v1.0

HindIII-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3104TVIAL	HindIII-HF®	10115902	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10108731	Pass	
B6004SVIAL	rCutSmart™ Buffer	10114153	Pass	

Assay Name/Specification	Lot # 10115899
Endonuclease Activity (Nicking) A 50 μl reaction in 50 μl PhiX174 NEBuffer 4 60 1 μg HindIII-HF™ PhiX174 37 60 units% conversion to the nicked form as determined by agarose gel electrophoresis. 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 CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of HindIII-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 200 Units of HindIII-HF™ incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity)	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.

Penghua Zhang Production Scientist 20 Aug 2021

detection.

Michael Tonello

Packaging Quality Control Inspector

20 Aug 2021



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