

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: Hgal
Catalog Number: R0154S
Concentration: 2,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of PhiX174 DNA in 1 hour at 37°C in a total reaction volume of 50

μl.

Packaging Lot Number: 10126699
Expiration Date: 10/2023
Storage Temperature: -20°C

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

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0154S/L v1.0

Hgal Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0154SVIAL	Hgal	10126698	Pass	
B6001SVIAL	NEBuffer™ r1.1	10102943	Pass	

Assay Name/Specification	Lot # 10126699
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer 1.1 containing 1 µg of PhiX174 DNA and a minimum of 2	
Units of Hgal incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
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Protein Purity Assay (SDS-PAGE)	Pass
Hgal is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 1.1 containing 1 µg of a mixture of single and double-stranded [3H] E. coli DNA and a minimum of 2 units of Hgal incubated for 4	
hours at 37°C releases <0.2% of the total radioactivity.	
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Ligation and Recutting (Terminal Integrity)	Pass
After a 2-fold over-digestion of PhiX174 DNA with Hgal, >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 Hgal.	
230 /0 Call be recut with rigal.	



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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

04 Nov 2021

Michael Tonello

Packaging Quality Control Inspector

04 Nov 2021