

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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 μ g of PhiX174 DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10167935
Expiration Date:	10/2024
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	10167934	Pass	
B6001SVIAL	NEBuffer™ r1.1	10154035	Pass	

Assay Name/Specification	Lot # 10167935
Protein Purity Assay (SDS-PAGE) Hgal is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) 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.	Pass
Ligation and Recutting (Terminal Integrity) 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.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1.1 containing 1 µg of a mixture of single and double-stranded [³ H] 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.	Pass





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

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YunJie Sun Production Scientist 27 Oct 2022

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Michael Tonello Packaging Quality Control Inspector 02 Nov 2022

