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New England Biolabs Certificate of Analysis

Product Name: Eagl-HF®
Catalog Number: R3505M
Concentration: 100,000 U/ml

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

of pXba DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10129496
Expiration Date: 12/2023
Storage Temperature: -80°C

Storage Conditions: 500 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

200 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R3505M v3.0

Eagl-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3505MVIAL	Eagl-HF®	10129494	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10130600	Pass	
B6004SVIAL	rCutSmart™ Buffer	10132768	Pass	

Assay Name/Specification	Lot # 10129496
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pXba DNA and a minimum of 100 Units of Eagl-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) After a 20-fold over-digestion of pXba DNA with EagI-HF™, >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 EagI-HF™.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 20 Units of Eagl-HF™ incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Eagl-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	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.

Penghaa Zhang Production Scientist

gene results in <1% white colonies.

25 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

25 Jan 2022



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