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New England Biolabs Certificate of Analysis

Product Name: Eagl-HF®
Catalog Number: R3505L
Concentration: 20,000 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: 10066782
Expiration Date: 02/2022
Storage Temperature: -20°C

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

200 μ g/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R3505S/L v2.0

Eagl-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3505LVIAL	Eagl-HF®	10066783	Pass	
B7204SVIAL	CutSmart® Buffer	10068804	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10065745	Pass	

Assay Name/Specification	Lot # 10066782
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 100 units of Eagl-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
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
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
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.

Stephanie Cornelio Production Scientist

12 Feb 2020

Michael Tonello

Packaging Quality Control Inspector

17 Mar 2020

