

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: Eagl
Catalog Number: R0505S
Concentration: 10,000 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: 10062746
Expiration Date: 12/2021
Storage Temperature: -20°C

Storage Conditions: 500 mM NaCl, 10 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0505S/L v1.0

Eagl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0505SVIAL	Eagl	10062747	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053974	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10064412	Pass	

Assay Name/Specification	Lot # 10062746
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 100 units of Eagl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pXba DNA and a minimum of 100 Units of Eagl 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 is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Blue-White Screening (Terminal Integrity) A sample of Litmus38i vector linearized with a 10-fold excess of Eagl, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass



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Assay Name/Specification	Lot # 10062746
Ligation and Recutting (Terminal Integrity)	Pass
After a 20-fold over-digestion of pXba DNA with Eagl, >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 Eagl.	

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

Stephanie Cornelio Production Scientist

Stephoni Onetto

19 Dec 2019

Jay Minichiello

Packaging Quality Control Inspector

12 Feb 2020

