

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:	Eagl
Catalog Number:	R0505L
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of pXba DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Lot Number:	10008867
Expiration Date:	05/2020
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	
R0505LVIAL	Eagl	10008881	Pass	
B7203SVIAL	NEBuffer™ 3.1	10010189	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10011266	Pass	

Assay Name/Specification	Lot # 10008867
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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] 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.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of pXba DNA with EagI, >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.	Pass
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	Pass





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Assay Name/Specification	Lot # 10008867
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE)	Pass
Eagl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	

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

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Stephanie Cornelio Production Scientist 22 May 2018

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Mary Conton Packaging Quality Control Inspector 30 Jul 2018

