

*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:	R0505S
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 $\mu$ g of pXba DNA in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Lot Number:	10010521
Expiration Date:	06/2020
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0505SVIAL	Eagl	10010522	Pass	
B7203SVIAL	NEBuffer™ 3.1	10010189	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10013725	Pass	

Assay Name/Specification	Lot # 10010521
<b>Blue-White Screening (Terminal Integrity)</b> 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
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Ligation and Recutting (Terminal Integrity)</b> 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
<b>Non-Specific DNase Activity (16 Hour)</b> 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 <sup>o</sup> C results in a DNA pattern free of	Pass





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Pass

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

Tony Spear-Alfonso Production Scientist 06 Jun 2018

Michae 2. 11

Michael Tonello Packaging Quality Control Inspector 15 Aug 2018

