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New England Biolabs Certificate of Analysis

Product Name: Eagl
Catalog Number: R0505M
Concentration: 50,000 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.

Lot Number: 10021733
Expiration Date: 09/2020
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-R0505M v1.0

Eagl Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0505MVIAL	Eagl	10021469	Pass
B7203SVIAL	NEBuffer™ 3.1	10018441	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10013725	Pass

Assay Name/Specification	Lot # 10021733
Protein Purity Assay (SDS-PAGE)	Pass
Eagl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Blue-White Screening (Terminal Integrity)	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	
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.	
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.	



R0505M / Lot: 10021733

Page 1 of 2

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

Tony Spear-Alfonso Production Scientist

08 Aug 2018

Michael Tonello

Packaging Quality Control Inspector

11 Sep 2018

