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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.

Packaging Lot Number: 10091766
Expiration Date: 07/2022
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 | 10077742 | Pass |
| B7203SVIAL | NEBuffer™ 3.1 | 10085493 | Pass |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10084972 | Pass |

| Assay Name/Specification | Lot # 10091766 |
|--|----------------|
| 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 [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. | Pass |
| Ligation and Recutting (Terminal Integrity) 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. | 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 |



R0505M / Lot: 10091766 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

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Penghua Zhang Production Scientist

24 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

24 Nov 2020

