

New England Biolabs Certificate of Analysis

Product Name: NEB[®] Golden Gate Assembly Mix
 Catalog Number: E1600S
 Lot Number: 10014623
 Expiration Date: 06/2019
 Storage Temperature: -20°C
 Specification Version: PS-E1600S v1.0

| NEB [®] Golden Gate Assembly Mix Component List | | | |
|--|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N2615AVIAL | pGGA Destination Plasmid | 10010852 | Pass |
| M2615AVIAL | NEB [®] Golden Gate Assembly Mix | 10010851 | Pass |
| B2615AVIAL | NEB [®] Golden Gate Buffer | 10010850 | Pass |

| Assay Name/Specification | Lot # 10014623 |
|---|-------------------------|
| <p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEB[®] Golden Gate Assembly Mix and meet the designated specifications.</p> <p>Functional Testing (Golden Gate Assembly) A 20 µl reaction containing 2 µl of Golden Gate Buffer, 75 ng pGGA (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene encoding lacZ, and 1 µl NEB[®] Golden Gate Assembly Mix is incubated for 30 cycles of 37°C for 1 minute, 16°C for 1 minute, and then at 55°C for 5 minutes to linearize any remaining plasmid. Successfully assembled fragments result in lacZ gene in the pGGA vector and yield blue colonies on an IPTG/Xgal/Chloramphenicol plate. Transformation of T7 Express Competent E. coli (High Efficiency, NEB #C2566) with 2 µl of the assembly reaction yields >250 colonies and >80% blue colonies when 5% of the outgrowth is spread on an IPTC/Xgal/Chloramphenicol plate and incubated overnight at 37°C.</p> | <p>Pass</p> <p>Pass</p> |

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

Cathy Shea

Cathy Shea
Production Scientist
27 Jun 2018

Mary Conlon

Mary Conlon
Packaging Quality Control Inspector
28 Jun 2018