

New England Biolabs Certificate of Analysis

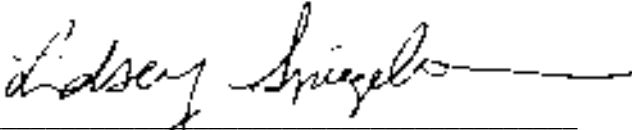
Product Name: NEBridge® Golden Gate Assembly Kit (BsmBI-v2)
Catalog Number: E1602S
Packaging Lot Number: 10245964
Expiration Date: 03/2026
Storage Temperature: -20°C
Specification Version: PS-E1602S/L v3.0

| NEBridge® Golden Gate Assembly Kit (BsmBI-v2) Component List | | | |
|--|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N0309AAVIAL | pGGAselect Destination Plasmid | 10221025 | Pass |
| M2617AVIAL | NEBridge® Golden Gate Enzyme Mix (BsmBI-v2) | 10230725 | Pass |
| B0202SVIAL | T4 DNA Ligase Reaction Buffer | 10230730 | Pass |

| Assay Name/Specification | Lot # 10245964 |
|---|----------------|
| <p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEBridge® Golden Gate Assembly Kit (BsmBI-v2) and meet the designated specifications.</p> | Pass |
| <p>Functional Testing (Golden Gate Assembly) A 20 µl reaction containing 1X T4 DNA Ligase Buffer, 75 ng pGGAselect (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene cassette encoding lacZ and 1 µl NEBridge® Golden Gate Enzyme Mix (BsmBI-v2) containing T4 DNA Ligase and BsmBI-v2 is incubated for 30 cycles of 42°C for 1 minute, 16°C for 1 minute, then at 60°C for 5 minutes. Successfully assembled fragments result in functional lacZ gene expression in pGGAselect 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 IPTG/ Xgal/Chloramphenicol plate and incubated overnight at 37°C.</p> | Pass |

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

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01 Apr 2024



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11 Jul 2024