

New England Biolabs Certificate of Analysis

Product Name: NEBridge® Golden Gate Assembly Kit (BsmBI-v2)
 Catalog Number: E1602L
 Packaging Lot Number: 10199797
 Expiration Date: 07/2025
 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	10195891	Pass
M2617AAVIAL	NEBridge® Golden Gate Enzyme Mix (BsmBI-v2)	10195889	Pass
B0202SVIAL	T4 DNA Ligase Reaction Buffer	10191185	Pass

Assay Name/Specification	Lot # 10199797
<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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Lindsey Spiegelman
Production Scientist
06 Jul 2023



Michael Tonello
Packaging Quality Control Inspector
14 Jul 2023