

New England Biolabs Certificate of Analysis

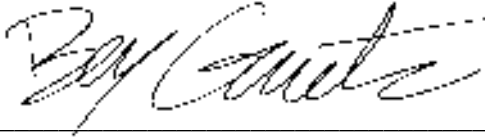
Product Name: *NEBridge® Golden Gate Assembly Kit (BsmBI-v2)*
 Catalog Number: *E1602L*
 Packaging Lot Number: *10254035*
 Expiration Date: *09/2026*
 Storage Temperature: *-20°C*
 Specification Version: *PS-E1602S/L v3.0*

NEBridge® Golden Gate Assembly Kit (BsmBI-v2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0309AAVIAL	pGGAselect Destination Plasmid	10250834	Pass
M2617AAVIAL	NEBridge® Golden Gate Enzyme Mix (BsmBI-v2)	10253497	Pass
B0202SVIAL	T4 DNA Ligase Reaction Buffer	10243106	Pass

Assay Name/Specification	Lot # 10254035
<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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Bela Guerster
Production Scientist
18 Sep 2024



Michael Tonello
Packaging Quality Control Inspector
24 Sep 2024