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New England Biolabs Certificate of Analysis

Product Name: NEBridge® Golden Gate Assembly Kit (BsmBl-v2)

Catalog Number: E1602L
Packaging Lot Number: 10242946
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	
M2617AAVIAL	NEBridge® Golden Gate Enzyme Mix (BsmBI-v2)	10230724	Pass	
B0202SVIAL	T4 DNA Ligase Reaction Buffer	10234722	Pass	

Assay Name/Specification	Lot # 10242946
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in	
NEBridge® Golden Gate Assembly Kit (BsmBI-v2) and meet the designated	
specifications.	
Functional Testing (Golden Gate Assembly)	Pass
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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 lacIZ 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 lacIZ 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.	

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.



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Josh Hersey Packaging Quality Control Inspector

22 May 2024

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