

New England Biolabs Certificate of Analysis

Product Name: NEB® Golden Gate Assembly Kit (BsmBI-v2)
 Catalog Number: E1602S
 Packaging Lot Number: 10067343
 Expiration Date: 03/2022
 Storage Temperature: -20°C
 Specification Version: PS-E1602S/L v2.0

NEB® Golden Gate Assembly Kit (BsmBI-v2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0309AAVIAL	pGGAselect Destination Plasmid	10067347	Pass
M2617AVIAL	NEB® Golden Gate Enzyme Mix (BsmI-HF®v2)	10067345	Pass
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10065195	Pass

Assay Name/Specification	Lot # 10067343
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEB® Golden Gate Assembly Kit (BsmBI-v2) and meet the designated specifications.</p> <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 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>	<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
03 Mar 2020

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
06 Mar 2020