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## New England Biolabs Certificate of Analysis

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

Catalog Number: E1602S
Packaging Lot Number: 10092406
Expiration Date: 11/2022
Storage Temperature: -20°C

Specification Version: PS-E1602S/L v2.0

NEB® Golden Gate Assembly Kit (BsmBl-v2) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
N0309AAVIAL	pGGAselect Destination Plasmid	10087459	Pass	
M2617AVIAL	NEB® Golden Gate Enzyme Mix (BsmBI-v2)	10087600	Pass	
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10082742	Pass	

Assay Name/Specification	Lot # 10092406
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in NEB®	
Golden Gate Assembly Kit (BsmBI-v2) and meet the designated specifications.	
Functional Testing (Golden Gate Assembly)	Pass
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 laclZ and 1 µl Golden Gate Enzyme Mix (BsmBl-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.

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09 Dec 2020

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Packaging Quality Control Inspector

09 Dec 2020