

## New England Biolabs Certificate of Analysis

Product Name: NEB® Golden Gate Enzyme Kit (Bsal-HF®v2)  
 Catalog Number: E1601L  
 Packaging Lot Number: 10065564  
 Expiration Date: 03/2022  
 Storage Temperature: -20°C  
 Specification Version: PS-E1601S/L v2.0

NEB® Golden Gate Enzyme Kit (Bsal-HF®v2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0309AAVIAL	pGGAselect Destination Plasmid	10069081	Pass
M2616AAVIAL	NEB® Golden Gate Enzyme Mix (Bsal-HF®v2)	10065926	Pass
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10065195	Pass

Assay Name/Specification	Lot # 10065564
<p><b>Functional Testing (Golden Gate Assembly)</b>            A 20 µl reaction containing 1X T4 DNA Ligase Reaction Buffer, 75 ng pGGAselect (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene encoding lacZ, and 1 µl NEB® Golden Gate Assembly Mix is incubated for 30 cycles of 37°C for 1 minute, 16°C for 1 minute, and then at 60°C for 5 minutes to linearize any remaining plasmid. Successfully assembled fragments result in lacZ gene in the 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 &gt;250 colonies.</p>	Pass
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in NEB® Golden Gate Assembly Kit (Bsal-HFv2) and meet the designated specifications.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.

*Cathy Shea*

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Cathy Shea  
Production Scientist  
02 Apr 2020

*Jay Minichiello*

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Jay Minichiello  
Packaging Quality Control Inspector  
02 Apr 2020