

## New England Biolabs Certificate of Analysis

**Product Name:** NEBridge<sup>®</sup> Golden Gate Assembly Kit (Bsal-HF-v2)  
**Catalog Number:** E1601L  
**Packaging Lot Number:** 10174202  
**Expiration Date:** 10/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E1601S/L v3.0

NEBridge <sup>®</sup> Golden Gate Assembly Kit (Bsal-HF-v2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0309AAVIAL	pGGAselect Destination Plasmid	10165463	<b>Pass</b>
M2616AAVIAL	NEBridge <sup>®</sup> Golden Gate Enzyme Mix (Bsal-HF <sup>®</sup> v2)	10165441	<b>Pass</b>
B0202SVIAL	T4 DNA Ligase Reaction Buffer	10153863	<b>Pass</b>

Assay Name/Specification	Lot # 10174202
<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 NEBridge<sup>®</sup> Golden Gate Assembly Kit (Bsal-HFv2) 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>	<b>Pass</b>
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in NEBridge<sup>®</sup> Golden Gate Assembly Kit (Bsal-HFv2) and meet the designated specifications.</p>	<b>Pass</b>

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

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18 Oct 2022



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