

New England Biolabs Certificate of Analysis

Product Name: *NEB® Golden Gate Assembly Kit (Bsal-HF®v2)*
 Catalog Number: *E1601S*
 Packaging Lot Number: *10128990*
 Expiration Date: *08/2023*
 Storage Temperature: *-20°C*
 Specification Version: *PS-E1601S/L v2.0*

NEB® Golden Gate Assembly Kit (Bsal-HF®v2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0309AAVIAL	pGGAselect Destination Plasmid	10114841	Pass
M2616AVIAL	NEB® Golden Gate Enzyme Mix (Bsal-HF®v2)	10114836	Pass
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10123636	Pass

Assay Name/Specification	Lot # 10128990
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEB® Golden Gate Assembly Kit (Bsal-HFv2) and meet the designated specifications.</p> <p>Functional Testing (Golden Gate Assembly) 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 >250 colonies.</p>	<p>Pass</p> <p>Pass</p>

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

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29 Nov 2021



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29 Nov 2021