

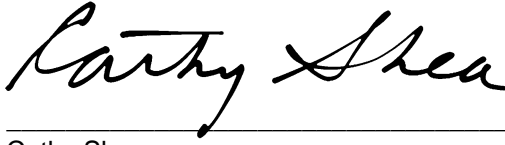
New England Biolabs Certificate of Analysis

Product Name: NEB® Golden Gate Enzyme Kit (Bsal-HF®v2)
 Catalog Number: E1601S
 Packaging Lot Number: 10070615
 Expiration Date: 03/2022
 Storage Temperature: -20°C
 Specification Version: PS-E1601S/L v1.0

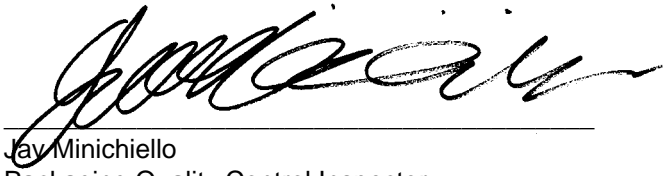
NEB® Golden Gate Enzyme Kit (Bsal-HF®v2) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0309AAVIAL	pGGAselect Destination Plasmid	10069081	Pass
M2616AVIAL	NEB® Golden Gate Enzyme Mix (Bsal-HF®v2)	10065927	Pass
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10065195	Pass

Assay Name/Specification	Lot # 10070615
<p>Functional Testing (Golden Gate Assembly) A 20 µl reaction containing 2 µl of T4 DNA Ligase Reaction Buffer, 75 ng pGGA (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene encoding lacZ, and 1 µl NEB® Golden Gate Enzyme 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 pGGA 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>	Pass
<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>	Pass

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



Cathy Shea
Production Scientist
05 Mar 2020



Jay Minichiello
Packaging Quality Control Inspector
13 Mar 2020