

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	NEBridge® Golden Gate Assembly Kit (Bsal-HF-v2)
Catalog Number:	E1601S
Packaging Lot Number:	10221688
Expiration Date:	12/2025
Storage Temperature:	-20°C
Specification Version:	PS-E1601S/L v3.0

NEBridge® Golden Gate Assembly Kit (Bsal-HF-v2) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N0309AAVIAL	pGGAselect Destination Plasmid	10221025	Pass	
M2616AVIAL	NEBridge® Golden Gate Enzyme Mix (Bsal-HF®v2)	10216386	Pass	
B0202SVIAL	T4 DNA Ligase Reaction Buffer	10213891	Pass	

Assay Name/Specification	Lot # 10221688
* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEBridge® Golden Gate Assembly Kit (Bsal-HFv2) and meet the designated specifications.	Pass
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 laclZ, and 1 μl NEBridge® 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 laclZ 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.	Pass

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

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L'dser Spiegeles

Lindsey Spiegelman Production Scientist 19 Dec 2023

Michae -110

Michael Tonello Packaging Quality Control Inspector 22 Jan 2024

