

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: NEB® Golden Gate Enzyme Kit (Bsal-HF®v2)

Catalog Number: E1601S
Lot Number: 10042842
Expiration Date: 05/2021
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	
N2615AAVIAL	pGGA Destination Plasmid	10042846	Pass	
M2616AVIAL	NEB® Golden Gate Enzyme Mix (Bsal-HF®v2)	10042845	Pass	
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10045191	Pass	

Assay Name/Specification	Lot # 10042842
Functional Testing (Golden Gate Assembly) A 20 μ l reaction containing 2 μ l 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 laclZ, and 1 μ l 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 laclZ 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 μ l 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.	Pass
* 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.	Pass

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



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Cathy Shea
Production Scientist

10 May 2019

Minichiello

Packaging Quality Control Inspector

31 May 2019

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