

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 Assembly Kit (BsmBl-v2)

Catalog Number: E1602L
Packaging Lot Number: 10092405
Expiration Date: 11/2022
Storage Temperature: -20°C

Specification Version: PS-E1602S/L v2.0

NEB® Golden Gate Assembly Kit (BsmBl-v2) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N0309AAVIAL	pGGAselect Destination Plasmid	10087459	Pass	
M2617AAVIAL	NEB® Golden Gate Enzyme Mix (Bsml-v2)	10087601	Pass	
B0202AVIAL	T4 DNA Ligase Reaction Buffer	10082742	Pass	

Assay Name/Specification	Lot # 10092405
Functional Testing (Golden Gate Assembly) A 20 μl reaction containing 1X T4 DNA Ligase Buffer, 75 ng pGGAselect (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene cassette encoding laclZ and 1 μl Golden Gate Enzyme Mix (BsmBl-v2) containing T4 DNA Ligase and BsmBl-v2 is incubated for 30 cycles of 42°C for 1 minute, 16°C for 1 minute, then at 60°C for 5 minutes. Successfully assembled fragments result in functional laclZ gene expression in 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 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 (BsmBI-v2) and meet the designated specifications.	Pass

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

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E1602L / Lot: 10092405 Page 1 of 2 Ana Egana Production Scientist

09 Dec 2020

Michael Tonello

Packaging Quality Control Inspector

09 Dec 2020

Page 2 of 2