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New England Biolabs Certificate of Analysis

Product Name: NEB® Golden Gate Assembly Mix

Catalog Number: E1600S
Lot Number: 10009600
Expiration Date: 02/2019
Storage Temperature: -20°C

Specification Version: PS-E1600S v1.0

NEB® Golden Gate Assembly Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N2615AVIAL	pGGA Destination Plasmid	0011802	Pass	
M2615AVIAL	NEB® Golden Gate Assembly Mix	0101802	Pass	
B2615AVIAL	NEB® Golden Gate Buffer	0021705	Pass	

Assay Name/Specification	Lot # 10009600
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in NEB®	
Golden Gate Assembly Mix and meet the designated specifications.	
Functional Testing (Golden Gate Assembly)	Pass
A 20 µl reaction containing 2 µl of Golden Gate Buffer, 75 ng pGGA (Golden Gate	
destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene	
encoding laclZ, 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 55°C for 5 minutes to linearize	
any remaining plasmid. Successfully assembled fragments result in lacIZ 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 IPTC/Xgal/Chloramphenicol plate and incubated	
overnight at 37°C.	

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



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Production Scientist
24 May 2018

Michael Tonello

Packaging Quality Control Inspector

24 May 2018

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