

## New England Biolabs Certificate of Analysis

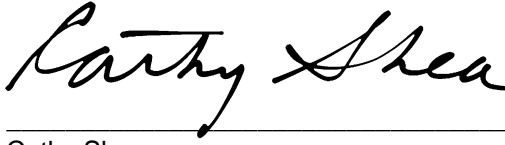
*Product Name:* Gibson Assembly<sup>®</sup> Cloning Kit  
*Catalog Number:* E5510S  
*Concentration:* 2 X Concentrate  
*Lot Number:* 10042672  
*Expiration Date:* 02/2020  
*Storage Temperature:* Multi-temperature\*  
*Specification Version:* PS-E5510S v1.0

\* This product contains components with different storage temperature requirements. Please reference the applicable product specification document(s) on the Quality and Safety tab located on the product page of [www.neb.com](http://www.neb.com).

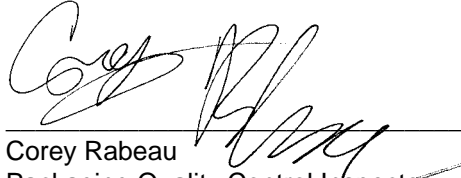
Gibson Assembly <sup>®</sup> Cloning Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10035844	Pass
N2611AVIAL	Gibson Assembly <sup>®</sup> Positive Control	10033510	Pass
M5510AVIAL	Gibson Assembly <sup>®</sup> Master Mix	10033505	Pass
C2987HVIAL	NEB <sup>®</sup> 5-alpha Competent E. coli (High Efficiency)	10033562	Pass
B9020SVIAL	SOC Outgrowth Medium	10032899	Pass

Assay Name/Specification	Lot # 10042672
<b>Functional Testing (Gibson Assembly)</b> A 20 µl reaction containing 10 µl of 2X Gibson Assembly Master Mix and six 0.05 pmol fragments of pUC19 (five 400 bp fragments and one 2,780 bp fragment, each with a 40 bp overlap) is incubated at 50°C for 60 minutes. Transformation of NEB 5-alpha competent E. coli cells (NEB #C2987) with 2 µl of the master mix/fragment mixture yields greater than 100 white colonies on an ampicillin plate with IPTG/X-Gal after overnight incubation at 37°C.	Pass
<b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in Gibson Assembly <sup>®</sup> Cloning Kit and meet the designated specifications.	Pass

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



Cathy Shea  
Production Scientist  
21 Feb 2019



Corey Rabeau  
Packaging Quality Control Inspector  
22 Apr 2019