

## New England Biolabs Certificate of Analysis

*Product Name:* Gibson Assembly<sup>®</sup> Cloning Kit  
*Catalog Number:* E5510S  
*Concentration:* 2 X Concentrate  
*Packaging Lot Number:* 10060048  
*Expiration Date:* 11/2020  
*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	10058192	Pass
N2611AVIAL	NEBuilder <sup>®</sup> Positive Control	10043300	Pass
M5510AVIAL	Gibson Assembly <sup>®</sup> Master Mix	10056329	Pass
C2987HVIAL	NEB <sup>®</sup> 5-alpha Competent E. coli (High Efficiency)	10053790	Pass
B9020SVIAL	SOC Outgrowth Medium	10054663	Pass

Assay Name/Specification	Lot # 10060048
<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*

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04 Nov 2019

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02 Dec 2019