

## New England Biolabs Certificate of Analysis

**Product Name:** Gibson Assembly® Cloning Kit  
**Catalog Number:** E5510S  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10057764  
**Expiration Date:** 06/2020  
**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® Cloning Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10053503	Pass
N2611AVIAL	NEBuilder® Positive Control	10033510	Pass
M5510AVIAL	Gibson Assembly® Master Mix	10043294	Pass
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10053716	Pass
B9020SVIAL	SOC Outgrowth Medium	10048119	Pass

Assay Name/Specification	Lot # 10057764
<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.	<b>Pass</b>
<b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in Gibson Assembly® Cloning Kit and meet the designated specifications.	<b>Pass</b>

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

*Cathy Shea*

Cathy Shea  
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13 Jun 2019

*Nick Privitera*

Nick Privitera  
Packaging Quality Control Inspector  
21 Oct 2019