

## New England Biolabs Certificate of Analysis

*Product Name:* Gibson Assembly® Cloning Kit  
*Catalog Number:* E5510S  
*Concentration:* 2 X Concentrate  
*Packaging Lot Number:* 10152264  
*Expiration Date:* 04/2023  
*Storage Temperature:* Multi-temperature\*  
*Specification Version:* PS-E5510S v1.0

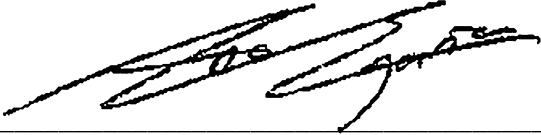
\* This product contains components with different storage temperature requirements. Please reference the applicable product specification document(s) on the Quality and Safety tab located on the product page of [www.neb.com](http://www.neb.com).

Gibson Assembly® Cloning Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10146225	Pass
N2611AVIAL	NEBuilder® Positive Control	10134428	Pass
M5510AVIAL	Gibson Assembly® Master Mix	10144140	Pass
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10135468	Pass
B9020SVIAL	SOC Outgrowth Medium	10135628	Pass

Assay Name/Specification	Lot # 10152264
<p><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.</p> <p><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.</p>	<p>Pass</p> <p>Pass</p>

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Ana Egana  
Production Scientist  
27 May 2022



Nick Privitera  
Packaging Quality Control Inspector  
27 May 2022