

## New England Biolabs Certificate of Analysis

*Product Name:* Gibson Assembly<sup>®</sup> Cloning Kit  
*Catalog Number:* E5510S  
*Concentration:* 2 X Concentrate  
*Packaging Lot Number:* 10159785  
*Expiration Date:* 08/2023  
*Storage Temperature:* Multi-temperature\*  
*Specification Version:* PS-E5510S v1.0

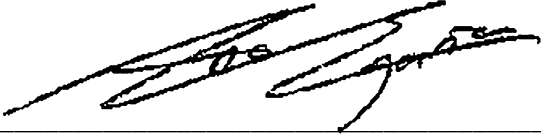
\* This product contains components with different storage temperature requirements. Please reference the applicable product specification document(s) on the Quality and Safety tab located on the product page of [www.neb.com](http://www.neb.com).

| Gibson Assembly <sup>®</sup> Cloning Kit Component List |  |            |                      |
|---|--|------------|----------------------|
| NEB Part Number   | Component Description  | Lot Number | Individual QC Result |
| N3041AVIAL  | pUC19 Vector   | 10160822   | Pass                 |
| N2611AVIAL  | NEBuilder <sup>®</sup> Positive Control                      | 10157948   | Pass                 |
| M5510AVIAL  | Gibson Assembly <sup>®</sup> Master Mix                      | 10156801   | Pass                 |
| C2987HVIAL  | NEB <sup>®</sup> 5-alpha Competent E. coli (High Efficiency) | 10144529   | Pass                 |
| B9020SVIAL  | SOC Outgrowth Medium   | 10152374   | Pass                 |

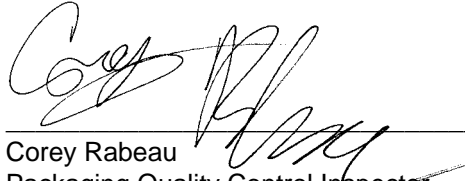
| Assay Name/Specification   | Lot # 10159785 |
|--|----------------|
| <p><b>Functional Testing (Gibson Assembly)</b><br/>A 20 µl reaction containing 10 µl of 2X Gibson Assembly Master Mix and six 0.05 pmol fragments of pUC19 (five 400 bp fragments and one 2,780 bp fragment, each with a 40 bp overlap) 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> | Pass           |
| <p><b>* Individual Product Component Note</b><br/>Standard Quality Control Tests are performed for each component included in Gibson Assembly<sup>®</sup> Cloning Kit and meet the designated specifications.</p>  | Pass           |

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.



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25 Aug 2022



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