

New England Biolabs Certificate of Analysis

Product Name: Gibson Assembly[®] Cloning Kit
Catalog Number: E5510S
Concentration: 2 X Concentrate
Packaging Lot Number: 10176841
Expiration Date: 11/2023
Storage Temperature: Multi-temperature*
Specification Version: PS-E5510S v1.0

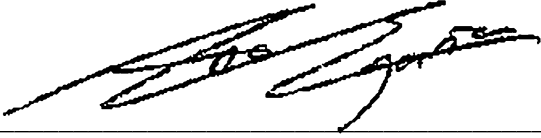
* This product contains components with different storage temperature requirements. Please reference the applicable product specification document(s) on the Quality and Safety tab located on the product page of www.neb.com.

| Gibson Assembly [®] Cloning Kit Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3041AVIAL | pUC19 Vector | 10173306 | Pass |
| N2611AVIAL | NEBuilder [®] Positive Control | 10157948 | Pass |
| M5510AVIAL | Gibson Assembly [®] Master Mix | 10169370 | Pass |
| C2987HVIAL | NEB [®] 5-alpha Competent E. coli (High Efficiency) | 10161003 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10166768 | Pass |

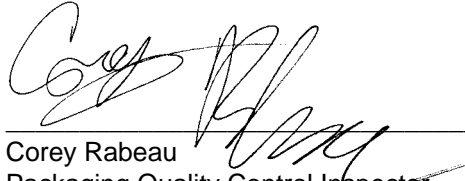
| Assay Name/Specification | Lot # 10176841 |
|--|-------------------------|
| <p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Gibson Assembly[®] Cloning Kit and meet the designated specifications.</p> <p>Functional Testing (Gibson Assembly) 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 for additional information.



Ana Egana
Production Scientist
23 Jan 2023



Corey Rabeau
Packaging Quality Control Inspector
23 Jan 2023