

New England Biolabs Certificate of Analysis

Product Name: NEBuilder[®] HiFi DNA Assembly Cloning Kit
Catalog Number: E5520S
Packaging Lot Number: 10163931
Expiration Date: 08/2023
Storage Temperature: Multi-temperature*
Specification Version: PS-E5520S v2.0

* 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.

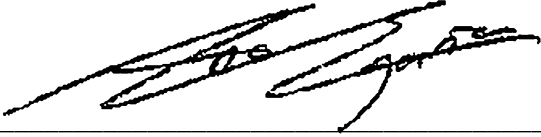
| NEBuilder [®] HiFi DNA Assembly Cloning Kit Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3041AVIAL | pUC19 Vector | 10160822 | Pass |
| N2611AVIAL | NEBuilder [®] Positive Control | 10157948 | Pass |
| M5520AVIAL | NEBuilder [®] High-Fidelity Master Mix | 10156826 | Pass |
| C2987HVIAL | NEB [®] 5-alpha Competent E. coli (High Efficiency) | 10151533 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10152376 | Pass |

| Assay Name/Specification | Lot # 10163931 |
|---|----------------|
| <p>Functional Testing (NEBuilder[®] HiFi DNA Assembly) 10 µl of 2X NEBuilder[®] HiFi DNA Assembly Cloning Kit was incubated with 0.05 pmol each of 6 DNA fragments (4 fragments of 1,000 bp, one fragment of 1,152 bp with 80 bp overlap, and a vector of 3,373 bp with a 20 bp overlap) in a final volume of 20 µl at 50°C for 60 minutes. NEB[®] 5-alpha Competent E. coli (High Efficiency) were transformed with 2 µl of the assembled products. Successfully assembled fragments produce an intact lacZ gene in the pACYC184 vector, and yield blue colonies on an IPTG/Xgal/Chloramphenicol plate when incubated overnight at 37°C after transformation. Greater than 100 blue colonies were observed when 1/10 of the outgrowth (500 µl) was spread on a plate.</p> | Pass |
| <p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEBuilder[®] HiFi DNA Assembly Cloning Kit and meet the designated specifications.</p> | Pass |

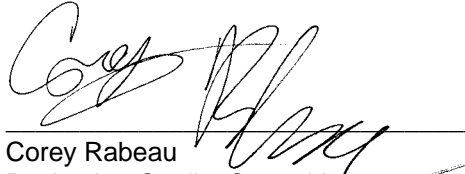
This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit

www.neb.com/trademarks for additional information.



Ana Egana
Production Scientist
06 Sep 2022



Corey Rabeau
Packaging Quality Control Inspector
06 Sep 2022