

New England Biolabs Certificate of Analysis

Product Name: NEBuilder[®] HiFi DNA Assembly Master Mix
 Catalog Number: E2621X
 Lot Number: 10031844
 Expiration Date: 10/2019
 Storage Temperature: -20°C
 Specification Version: PS-E2621S/X/L v1.0

| NEBuilder [®] HiFi DNA Assembly Master Mix Component List | | | |
|--|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| E2621L | NEBuilder [®] HiFi DNA Assembly Master Mix | 10028375 | Pass |

| Assay Name/Specification | Lot # 10031844 |
|--|----------------|
| <p>Functional Testing (NEBuilder[®] HiFi DNA Assembly) 10 µl of 2X NEBuilder[®] HiFi DNA Assembly Master Mix 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 Master Mix and meet the designated specifications.</p> | Pass |

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



Ana Egana
Production Scientist
19 Dec 2018



Michael Tonello
Packaging Quality Control Inspector
19 Dec 2018