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## New England Biolabs Certificate of Analysis

Product Name: NEBuilder® HiFi DNA Assembly Master Mix

Catalog Number: E2621G
Packaging Lot Number: 10146872
Expiration Date: 09/2023
Storage Temperature: -20°C

Specification Version: PS-E2621G v1.0

NEBuilder® HiFi DNA Assembly Master Mix Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
N2611AVIAL	NEBuilder® Positive Control	10134428	Pass	
M5520GVIAL	NEBuilder® High-Fidelity Master Mix	10143643	Pass	

Assay Name/Specification	Lot # 10146872
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.	Pass
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in	
NEBuilder® HiFi DNA Assembly Master Mix and meet the designated specifications.	

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.



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25 Mar 2022

Michael Tonello

Packaging Quality Control Inspector

25 Mar 2022