New England Biolabs
Certificate of Analysis

Product Name: NEBuilder® HiFi DNA Assembly Master Mix
Catalog Number: E2621L
Lot Number: 10013326
Expiration Date: 06/2019
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**
N2611AVIAL	Gibson Assembly® Positive Control	0171802	**Pass**
N2611AVIAL	Gibson Assembly® Positive Control	10009012	**Pass**
M5520AAVIAL	NEBuilder® High-Fidelity Master Mix	10009009	**Pass**

Assay Name/Specification	Lot # 10013326
* 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.	**Pass**
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**

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

nqa. ISO 9001 Registered Quality Management
nqa. ISO 13485 Registered Medical Devices
nqa. ISO 14001 Registered Environmental Management

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Cathy Shea   Packaging Quality Control Inspector
Production Scientist   00/00/0000
25 Jun 2018