

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: NEBuilder® HiFi DNA Assembly Master Mix

Catalog Number: E2621L
Packaging Lot Number: 10179024
Expiration Date: 07/2024
Storage Temperature: -20°C

Specification Version: PS-E2621S/X/L v2.0

NEBuilder® HiFi DNA Assembly Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2611AVIAL	NEBuilder® Positive Control	10157948	Pass
M5520AAVIAL	NEBuilder® High-Fidelity Master Mix	10173992	Pass

Assay Name/Specification	Lot # 10179024
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 Standard Quality Control Tests are performed for each component included in NEBuilder® HiFi DNA Assembly Master Mix and meet the designated specifications.	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.



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Michael Tonello

Packaging Quality Control Inspector

26 Jan 2023

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