

New England Biolabs Certificate of Analysis

Product Name: NEBuilder[®] HiFi DNA Assembly Master Mix
Catalog Number: E2621L
Packaging Lot Number: 10207166
Expiration Date: 11/2024
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	10187118	Pass
M5520AAVIAL	NEBuilder [®] High-Fidelity Master Mix	10187026	Pass

Assay Name/Specification	Lot # 10207166
<p>* Individual Product Component Note</p> <p>Standard Quality Control Tests are performed for each component included in NEBuilder[®] HiFi DNA Assembly Master Mix and meet the designated specifications.</p>	Pass
<p>Functional Testing (NEBuilder[®] HiFi DNA Assembly)</p> <p>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

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.



Lindsey Spiegelman
Production Scientist
16 May 2023



Michael Tonello
Packaging Quality Control Inspector
05 Oct 2023